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(54) Title: PROTEIN CRYSTAL

(57) Abstract: The present invention is in the fields of biotechnology, protein purification and crystallization, x-ray diffraction analysis, three-dimensional computer molecular modelling and rational drug design. The invention is directed to the Liver X receptor and ligands for this receptor, and in particular to crystalline Liver X receptor beta (LXRB) and to methods of identifying ligands utilizing LXRB, as well as to compounds, compositions and methods for selecting, making, and using therapeutic or diagnostic agents having LXRβ modulating or binding activity.

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## **Protein Crystal**

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## FIELD OF THE INVENTION

The present invention is in the fields of biotechnology, protein purification and crystallization, x-ray diffraction analysis, three-dimensional computer molecular modelling and rational drug design. The invention is directed to the liver X receptor b (LXRβ, NR1H2) and ligands for this receptor, and in particular to crystalline LXRβ and to methods of identifying ligands utilizing LXRβ, as well as to compounds, compositions and methods for selecting, making, and using therapeutic or diagnostic agents having LXRβ modulating or binding activity.

### BACKGROUND OF THE INVENTION

Liver X receptors are members of the superfamily of nuclear receptors. These transcription factors regulate target genes through a complex series of interactions with specific DNA response elements as well as transcriptional coregulators. The binding of ligand has profound effects on these interactions and has the potential to trigger both gene activation and, in some cases, gene silencing. There are about 50 sequence-related nuclear receptors in humans and the family comprises receptors that recognize hormones, both steroidal and non-steroidal, but also receptors responding to metabolic intermediates and to xenobiotics. There are also a number of so-called orphan receptors where the natural ligand is unknown. Some of the receptors show a very specific and high affinity ligand binding, like the thyroid hormone receptors, while others have a substantially lower affinity for their ligands and are also highly promiscuous in terms of ligand selectivity. Like many of the other non-steroid hormone receptors, LXR functions as a heterodimer with the 9-cis-retinoic acid receptor (RXR) to regulate gene expression. Together with PPARs and FXR LXRs represent a subclass of so called permissive RXR heterodimers. In this subclass, the RXR heterodimers can be activated independently by either the RXR ligand, the partner's ligand or synergistically by both.

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LXRs consist of two closely related receptor isoforms encoded by separate genes – LXR $\alpha$  (NR1H3) and LXR $\beta$  (NR1H2). As expected, the largest sequence differences are located in the N-terminal domain and in the so-called hinge region connecting the DBD and the LBD. LXR $\alpha$  shows tissue restricted expression with the highest mRNA levels detected in the liver and to a lesser extent in the kidney, small intestine, spleen and adrenal gland . In contrast, LXR $\beta$  is ubiquitously expressed Both LXR isoforms have been shown to be activated by specific oxysterols that can be formed *in vivo* . Recently potent, non-steroidal synthetic ligands have been described. T0901317 , GW3965 and F3MethylAA all have binding IC50s around 10 nM.

Important insight into LXR biology has been obtained through the study of LXR deficient mice. Both LXRα and LXRβ knockout mice have been described. The LXRα null strain exhibits a striking inability to metabolize and excrete excess cholesterol when challenged with a high-cholesterol diet. The explanation appears to be an inability to up-regulate the rate-limiting enzyme in cholesterol conversion to bile acid, CYP7A, in response to the excess cholesterol. As a consequence, the conversion of cholesterol to bile-acid that would normally occur is blunted and cholesteryl esters deposit in the liver ultimately resulting in liver-failure. In contrast, the LXRB knockout strain maintains its natural resistance to a high cholesterol diet These important findings not only prove an important function of LXRα in rodent cholesterol metabolism, but also suggest that the LXR dependent regulation of CYP7A is LXR-subtype selective. The CYP7A LXR response element is not well conserved between rodents and man. LXRs are therefore not expected to be main regulators of cholesterol conversion to bile-acids in humans. This notion is supported by results from in vitro assays using cultured human cells. However, more recently, LXRs have been shown to regulate also several other genes involved in cholesterol and lipid homeostasis. Prominent examples are the phospholipid/cholesteryl ester transporter ABCA1, ABCG1 and the SREBP1c gene that, in turn, induces fatty acid synthesizing enzymes. Increasing insight into the involvement of LXRs in cholesterol and fatty acid homeostasis has led to considerable interest in LXRs as targets for drug development. As an example, one hallmark of atherosclerosis is the build-up of cholesteryl esters in macrophages of the arterial wall, transforming the cells into so-called foam cells that, in turn are constituents of the atherosclerotic plaque. The potential to increase cholesterol

efflux from macrophages/foam cells by inducing genes such as ABCA1 and /or G1 thereby preventing or even reversing the atherosclerotic process make LXRs highly interesting drug targets.

The inventor's understanding of how nuclear receptor ligands exert their effects has been dramatically enhanced by the elucidation of the crystal structures of the apo or liganded LBDs of several nuclear receptors. These structures have revealed a common, mainly a helical, fold unique for LBDs of nuclear receptors. It comprises a core layer of three helices (H5/6, H9 and H10) sandwiched between two additional layers of helices (H1-4 and H7, H8, H11 respectively). This arrangement creates a wedge shaped molecular scaffold that contains a wider upper part, which shows the highest degree of sequence conservation a between the LBDs. The narrower lower part is folded to form a hydrophobic cavity into which the ligand can bind. The remaining secondary elements, an antiparallel b-sheet comprising 2-4 strands and H12 (sometimes also referred to as the AF-2 domain) sits on each side of the ligand-binding cavity. The structures have revealed that ligands can affect the position of H12 so that an agonist puts H12 in a position allowing coactivator binding and preventing corepressor binding, while in an unliganded or antagonist bound receptor the coactivator binding site is blocked. Alternatively, the unliganded or antagonist bound receptor recruits corepressors. The binding modes of several of these coregulators have also recently been depicted in detail.

The present inventors have been able to produce LXR $\beta$  crystals and to determine from that the three dimensional structure of the LXR $\beta$  ligand binding domain (LBD).

## SUMMARY OF THE INVENTION

The present invention refers to the crystallization of LXR $\beta$  and determination of its crystallographic co-ordinates. Therefore, in a first aspect the present invention provides a LXR $\beta$  ligand binding domain crystal.

In another aspect of the invention, methods for designing ligands which will bind to  $LXR\beta$  are provided. Such methods use three-dimensional models based on the crystals of the

LXRb ligand-binding domain. Generally, such methods comprise, determining compounds which are likely to bind to the receptor based on their three dimensional shape in particular the ligand binding domain of the LXRb. Preferably, such compounds have a structure that is complementary to the ligand-binding cavity of the LXRb. Such methods comprise the steps of determining which amino acid or amino acids of the ligand-binding domain of the LXRb interacts with the binding ligand, and selecting compounds or modifying existing compounds, to improve the interaction. Preferably, improvements in the interaction are manifested as increases in the binding affinity but may also include increases in receptor selectivity and/or modulation of efficacy.

Preferably, the ligands bind to the internal LXRβ binding cavity with a high binding affinity, for example within the range of 0.01–1000 nM.

The ligands may bind tightly to the LXRβ yet not up-regulate gene expression thereby inhibiting the action of endogenous LXRβ activators. Thus, the invention also provides a method of inhibiting the activity of endogenous LXRβ activators by providing ligands that bind to LXRβ with a high affinity, blocking the activity of the endogenous ligands. Alternatively, binding of the ligand to the LXRβ may cause conformational changes to the LXRβ inhibiting further binding thereto. The invention further provides a method of inhibiting the activity of endogenous LXRβ ligands in an animal, the method comprising administering to the animal a ligand which binds to at least the LBD, of the LXRβ with high affinity and blocks binding of further ligands to at least the LBD of the LXRβ. Such ligands are potentially useful in, for example, the treatment of LXRβ mediated diseases in humans. Preferably the ligands are identified by the method of designing ligands according to the invention.

### DETAILED DESCRIPTION OF THE INVENTION

One aspect of the invention provides a crystal comprising at least 150 amino acid residues of the LXR\$\beta\$ ligand-binding domain. Preferably, the said crystal comprises at least 200 amino acid residues of LXR\$\beta\$. More preferably, said crystal contains at least 250 amino

acid residues of LXR $\beta$ . Most preferably, the said crystal comprises the entire LXR $\beta$  amino acid sequence.

Preferably the crystal comprises the amino acid sequence shown as Leu-220 to Asp-458 most preferably Leu-220 to Glu-461 of a LXR $\beta$  ligand binding domain as shown in Figure 5 or an amino acid sequence having at least 95%, especially above 97, 98 or 99% identity to the sequence. This numbering is based on the full sequence of human LXR $\beta$ . Preferably, the crystal comprises the entire amino acid sequence shown in Figure 5.

Isolated protein consisting of the amino acid sequence listed for the crystals are also provided by the invention. The isolated protein may be used to produce the crystals.

The proposed structural identity (based on analogy to the estrogen receptor and thyroid hormone receptor) of parts of the LXR $\beta$  ligand-binding domain is shown below, based on the amino acid numbering of the full LXR $\beta$ .

Secondary motif	LXRB residues
Helix-l	Thr-221 to Val-249
Helix-3	Ala-261 to Val-289
Helix-4	Gly-291 to Gln-294
Helix 5	Gly-296 to Thr-308
Helix 6	Thr-308 to Arg-319
Sheet-1	Tyr-320 to His-322
Sheet-2	Glu-325 to Phe-329
Sheet-3	Phe-333 to Ser-336
Helix-7	Ser-336 to Ala-343
Helix-8	Gln-346 to Gly-364
Helix-9	Asp-366 to Ser-380
Helix-10	Pro-389 to Ile-409
Helix-11	Asp-414 to Gln-445
Helix-12	Pro-450 to Ile-456

An embodiment of this aspect of the invention provides a crystal produced using a sequence including helix 12 of LXRB. Preferably this is between Pro450 to Ile-456.

The crystals according to the invention may be usable in X-ray crystallography.

In another embodiment of the present invention there is provided a LXR $\beta$  crystal as described above also including a ligand bound to LXR $\beta$  or a portion thereof. Said ligand may be selected from T0901317

(N-(2,2,2-trifluoroethyl)-N-[4-[2,2,2-trifluoro-1-hydroxy-1-(trifluoromethyl)ethyl]phenyl]-benzenesulfonamide, CAS # [293754-55-9]; WO 00/54759), G-W-3965

(3-(3-(2-chloro-3-trifluoromethylbenzyl-2,2-diphenylethylamino)propoxy)phenylacetic acid, CAS # [405911-09-3]; Collins, Jon L.; et al. *J. Med. Chem.* (2002), 45(10), 1963-1966), 24(S),25-epoxycholesterol (CAS # [77058-74-3]),

N-[1-(2-furanyl)ethyl]-N-4-pyridinyl-tricyclo[3.3.1.13,7]decane-1-carboxamide (CAS # [355833-66-8], WO-01/60818) or any other ligand that binds with reasonably affinity (<1000 nM) to the internal LXRβ binding cavity. The T0901317, G-W-3965 or any other ligand may be used with a coactivator ligand such as T1F2 NR-box 1.

In another embodiment of the present invention there is provided a crystal of LXR $\beta$  LBD belonging to the space group P2<sub>1</sub>2<sub>1</sub>2<sub>1</sub> and having the unit cell dimensions a = 59 + /-3 Å, b = 100 + /-5 Å, c = 176 + /-3 Å,  $a = b = g = 90^{\circ}$ .

In another embodiment of the present invention there is provided a crystal of LXR $\beta$  LBD belonging to the space group P6<sub>1</sub>22 and having the unit cell dimensions a=59 +/-3 Å b= 59+/-3 Å c=294 +/-3 Å, a = b = 90°, g=120°.

In another embodiment of the present invention there is provided a crystal of LXR\$ LDB in complex with a coactivator peptide (such as a peptide corresponding to the first NR-box

of TIF2 (Leers, Treuter et al 1998)) belonging to the space group  $P2_12_12$  and having the unit cell dimensions a=89+/-3, b=91+/-3, c=131+/-3,  $a=b=g=90^\circ$ .

The crystals according to the invention may have a resolution as determined by X-ray crystallography of less than 3.6Å, preferably less than 2.9Å.

In another aspect of the present invention, there is provided a machine-readable data storage medium, comprising a data storage material encoded with machine readable data which, when using a machine programmed with instructions for using said data, is capable of displaying a graphical three-dimensional representation of a crystal structure as described above or a homologue of said crystal structure. Homologues include crystals with the same space group, but with another ligand, crystals with the same space group and substantially the same dimensions, and crystals using LXR $\beta$  from other species.

In yet another aspect of the present invention, there is provided a method for designing a potential LXR $\beta$  ligand for the treatment of diseases modulated by the LXR $\beta$ , the method comprising the steps of:

- (a) employing computational means to perform a fitting operation between the chemical entity and a binding site of LXR $\beta$  identified from a machine-readable storage medium as described above; and
- (b) analyzing the results of the fitting operation to predict the association between the potential chemical entity and the binding site.

Preferably the method also comprises the steps of:

- (c) synthesizing the potential LXR $\beta$  ligand based on the crystal structure of the LXR $\beta$ ; and
- (d) assaying the LXRβ ligand for LXRβ binding, response in a LXRβ reporter cell line, measuring one or more in vivo effects including but not limited to lesion area of fatty streaks in the aortic root, lipoprotein profile and serum triglyceride levels.

The method may alternatively provide the steps of:

synthesising the potential LXR $\beta$  ligand based on the crystal structure of said receptor; and

assaying the LXR $\beta$  ligand binding response in a LXR $\beta$  reporter cell line by measuring one or more *in vitro* effects, including but not limited to changes in the activity of a LXR response element driven reporter gene such as alkaline phosphatase, green fluorescent protein, or luciferase, changes indicating that the LXR $\beta$  ligand may be used for treatment of diseases modulated by LXR $\beta$ .

The LXR response element may be provided within, for example, a suitable plasmid containing the response element, reporter gene and suitable termination sequences. The reporter gene will be arranged so that expression of it is under the control of the response element.

Suitable vectors include, but are not limited to, bacterial or eukaryotic vectors such as plasmids or cosmids, phage vectors such as lambda phage, viral vectors such as adenoviral vectors or baculoviral vectors, and other vectors known in the art.

The vector preferably comprises suitable regulatory sequences to allow the nucleic acid molecule of the invention to be expressed in a suitable host cell to produce protein encoded by the nucleic acid molecule. Typically, the vector comprises a suitable promoter and terminator sequences, or other sequences such as poly A sequences, operably linked to the nucleic acid molecule. Such regulatory sequences are well known in the art.

The vector may also comprise a gene to allow the vector to be selected within a cell, such as an antibiotic resistance gene or a nutritional gene. Such genes are well known in the art.

The reporter gene is preferably Green Fluorescent Protein (GFP), which is known in the art. This fluoresces and enables the position of the kinase to be identified.

A further reporter system which may be used is lacZ gene from E.coli. This encodes the  $\beta$ -galactosidase enzyme. This catalyses the hydrolysis of b-galactoside sugars such as

lactose. The enzymatic activity in cell extracts can be assayed with various specialised substrates, for example X-gal, which allow enzyme activity quantitation using a spectrophotometer, fluorometer or a luminometer.

Alternatively, the reporter gene may be secreted alkaline phosphatase. This is a secreted enzyme which may be assayed from a supernatent by methods known in the art.

Luciferase, another known reporter gene, may be used. This is derived from the firefly (*Photinus pyralis*). It catalyses a reaction using D-luciferin and ATP in the presence of oxygen and Mg<sup>2+</sup> to produce light emission. The amount of light produced, and hence the amount of reporter gene produced under the control of the reporter element, may then be quantified.

The inventors have also identified that helix-12 of LXR $\beta$  plays a key role in determining the efficacy (agonism v. antagonism) of a ligand.

Accordingly, preferably the method includes the step of modifying the potential LXR $\beta$  ligand so that it:

- (a) sterically displaces helix-12; or
- (b) disrupts the dimerisation surface.

The dimerisation interface has been identified as helices H10 and H11.

In yet another aspect of the present invention, there is provided a method of designing a ligand which will bind to LXR $\beta$  comprising comparing the shape of a compound with the shape of the ligand binding cavity of LXR $\beta$  as obtained from a crystal according to the invention, and determining which amino acid or amino acids of the ligand binding domain interact with said compound.

In yet another aspect of the present invention, there is provided a crystallized molecule or molecular complex comprising a binding pocket defined by the structure coordinates of human LXRβ ligand binding domain amino acid residues 200 or a homologue of said

molecule or molecular complex wherein said homologue has a root mean square deviation form the backbone atoms of said amino acids of not more than 1.5 Å.

In a preferred embodiment of this aspect there is provided a crystallized molecule or molecular complex comprising a binding pocket defined by the structure coordinates of human LXRβ ligand binding domain amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354, His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457 or a homologue of said molecule or molecular complex wherein said homologue has a root mean square deviation form the backbone atoms of said amino acids of not more than 1.5 Å.

A further aspect of the invention provides crystallisable compositions comprising at least 250 amino acid residues of the LXRβ ligand-binding domain.

A further aspect of the invention provides a method of using the crystal of the invention in a drug screening assay comprising:

- (a) selecting a potential ligand by performing rational drug design with the three-dimensional structure determined for the crystal, wherein said selecting is performed in conjunction with computer modelling;
- (b) contacting (i.e. docking) the potential ligand with the ligand binding domain of LXRβ; and
- (c) detecting the binding of potential ligand for the ligand binding domain Preferably, a potential drug is selected on the basis of it having a greater affinity for the ligand domain of LXR $\beta$  than that of a standard ligand for the ligand binding domain of LXR $\beta$ . Alternatively, potential drugs may be selected by looking for those from a number of potential drugs with the greatest binding affinity.

Preferably the standard ligand in step (c) is T0901317, GW3965, or 24(S),25-epoxycholesterol.

The method may further comprise:

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- (d) growing a supplemental crystal containing a protein ligand complex formed between the N-terminal truncated LXRβ and the potential drug, wherein the crystal effectively diffracts X-rays for the determination of the atomic coordinates of the protein-ligand complex to a resolution of greater than 5.0 Å;
- (e) determining the three-dimensional structure of the supplemental crystal with molecular replacement analysis;
- (f) selecting a candidate drug by performing a rational drug design with the three-dimensional structure determined for the supplemental crystal, wherein said selecting is performed in conjunction with computer modelling;
- (g) contacting a cell that expresses LXRβ; and
- (h) detecting a measure of protein synthesis in the cell; wherein a candidate drug is identified as a drug when it inhibits or enhances the expression of protein synthesis in the cell.

The method preferably comprises an initial step that precedes steps (a) wherein initial step consists of determining the three-dimensional structure of a crystal comprising a protein-ligand complex formed between an N-terminal truncated LXRβ and T0901317, GW3965, or 24(S),25-epoxycholesterol, wherein the crystal effectively diffracts X-rays for the determination of the atomic coordinates of the protein-ligand complex to a resolution of greater than 5.0 Å.

The invention also provides a method of using a crystal of the invention in a drug screening assay comprising:

- (a) selecting a potential ligand by performing rational drug design with the three-dimensional structure determined for the crystal, wherein said selecting is performed in conjunction with computer modelling;
- (b) adding the potential ligand to a cDNA or protein expression assay regulated by LXR $\beta$ ;
- (c) detecting a measure of a cDNA or protein expression; wherein a potential ligand that regulates the expression of protein expression is selected as a potential drug.

Such cDNA or protein expression assays are themselves known per se in the art. Preferably the assay is in vitro.

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Computers for producing a 3D representation are also provided, the representation being of:

- (a) a molecule or molecular complex, wherein said molecule or molecular complex comprises a binding pocket defined by the structure coordinates of LXRβ amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354, His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457 according to the co-ordinate tables; or
- (b) a homolog of said molecule or molecular complex, wherein said homolog comprises a binding pocket that has a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å, wherein said computer comprises:
- (i) a computer-readable data storage medium comprising a data storage material encoded with computer-readable data, wherein said data comprises the structure of LXRβ amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354, His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457 according to any one of the co-ordinate tables;
- (ii) a working memory of storing instructions for processing said computer-readable data;
- (iii) a central-processing unit coupled to said working memory and to said computer-readable data storage medium for processing and computer-machine readable data into said three-dimensional representation; and
- (iv) a display coupled to said central-processing unit for displaying said three-dimensional representation.

Preferably the computer produces a 3D representation of:

- (a) a molecule or molecular complex defined by structure coordinates of all of the LXR $\beta$  ligand binding domain amino acid residues set forth in the co-ordinate tables; or
- (b) a homolog of said molecule or molecular complex, wherein said homolog comprises a binding pocket that has a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å; and wherein said computer readable data contains the coordinates of all of the LXRβ ligand binding domain amino acid residues as set forth in any one of the co-ordinate tables.

The invention also provides methods for determining the 3D structure of a complex between LXR $\beta$  and a ligand, therefore, which comprises:

- (a) obtaining x-ray diffraction data for crystals of the complex; and
- (b) utilizing a set of atomic coordinates a portion thereof according to the invention; and coordinates having a root mean square deviation therefrom with respect to conserved protein backbone atoms of not more than 1.5Å to define the three-dimensional structure of the complex.

A still further aspect of the invention provides a method for determining a modelling structure of a protein containing LXR $\beta$  or a complex of said protein and a ligand, which method comprises:

- (a) providing a three-dimensional structure defined by a set of coordinates or a portion thereof according to the invention; and coordinates having a root mean square deviation therefrom with respect to conserved protein backbone atoms of not more than 1.5Å;
- (b) generating a three-dimensional model structure of the protein containing LXR $\beta$  using a homology modelling method and the structure of step (a) as a template; and
- (c) subjecting the resulting model to molecular mechanics energy minimization.

The term "rational drug design", as used herein, is defined as the designing of drugs for specific purposes, such as the binding to a predetermined receptor or the treatment of a predetermined disease. Examples include the designing of a drug to specifically bind

and/or modulate nuclear hormone receptor binding, and the design of drugs to prevent or treat atherosclerosis. This is based upon the knowledge of molecular properties such as binding modes and interaction of the drug to its receptor as revealed by x-ray crystallography; the contribution of various functional groups contained in the drug to the affinity and specificity of the binding of the drug to its target; molecular geometry and electronic structure of drug and its target; and an information catalogued on analogous drug molecules. Such drug design is usually based on computed-assisted modelling and does not usually include pharmacokimetics, dosage analysis or drug administration analysis.

Computer modelling is the theoretical representation of data that simulates the behaviour or activity of systems, processes or phenomena. This includes the use of mathematical equations, computers and other electrical equipment. In the context of drug design, computer modelling allows the simulation of the strength of interaction between a drug conclictal and its target receptor.

Isolated proteins consisting essentially of the LBD of LXR $\beta$ , vectors encoding such proteins and host cells are also provided. the isolated protein may be attached to a tag, such as a his-tag.

Drug candidates are potential drugs. That is, they include compounds which have initial indications that they will have potential clinical use or activity.

The term "supplemental crystal" refers to a second, additional, crystal complexed with a further, different LXR $\beta$  ligand.

The term "standard ligand" refers to a known, characterised, ligand.

## STRUCTURE BASED DESIGN OF LXR LIGANDS

The present invention elucidates the structure of the ligand-binding cavity of LXRβ. Knowledge of the structure of this cavity has utility in the design of structurally novel

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LXRβ ligands and in the design of non-obvious analogues of known LXRβ ligands with improved properties. These enhanced properties include one or more of the following: (1) higher affinity, (2) improved selectivity for LXRβ vs. related nuclear hormone receptors and/or (3) a designed degree of efficacy (agonism vs. partial agonism vs. antagonism). Without knowledge of the LXRβ structure, modifications to produce ligands with enhanced properties and a reasonable likelihood of success would not be available to those skilled in the art. The LXRβ structure also has utility in the discovery of new, structurally novel classes of LXRβ ligands. Electronic screening of large, structurally diverse compound libraries such as the Available Chemical Directory (ACD) will identify new structural classes of LXRβ ligands which will bind to the 3-dimensional structure of the LXRβ. Additionally the LXRβ structure allows for "reverse–engineering" or "de novo design" of compounds to bind to LXRβ.

## (1) Enhanced Affinity

The present invention has revealed the size and shape of the interior binding cavity for representative LXR $\beta$  ligands T0901317 and GW-3965. The sizes and shapes of the cavities were delineated using the PASS program ("Fast Prediction and Visualization of Protein Binding Pockets With PASS"; G.P. Brady, Jr. and P.F.W. Stouten; J. Comp.-Aided Mol. Design, 14: 383-401, 2000). The interior binding cavity of LXR $\beta$ /T0901317 complex is shown in **Figure 6** (left) and has the dimensions of 13.1 x 9.2 x 7.5 Å along the first, second, and third principle moments of inertia respectively. The interior binding cavity of LXR $\beta$ /GW-3965 complex is shown in **Figure 6** (right) and has the dimensions of 17.0 x 11.9 x 8.0 Å along the first, second, and third principle moments of inertia respectively. In addition, this structure reveals a narrow "water-channel" adjacent to the cavity occupied by T0901317 and GW-3965.

Ligands which occupy as much of the interior binding cavities including the unoccupied "water-channels" as revealed by the LXRβ/T0901317 and LXRβ/GW-3965 complexes without sterically colliding with the receptor will provide ligands with higher affinity than either T0901317 or GW-3965.

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The present invention has also revealed the presence of a histidine residue (His-435) which forms a very strong hydrogen bond with the acidic hydroxyl group of the ligand TO901317 [Ne –  $OC(CF_3)_2Ar$ ) distance = 2.6 Å]. In addition, the sulfonyl oxygen atom of ligand TO901317 forms a weak hydrogen bond to the Ser-278 (Og – O=S=O distance = 4.1 Å). New ligands which preserve the strong hydrogen bond by an appropriately placed acidic hydrogen atom to interact with the Ne atom of His-435 and in addition place a hydrogen bond donating group closer to the Og atom of Ser-278 will show enhanced affinity for LXR $\beta$  relative to TO901317.

The present invention also reveals that there are a number of unsatisfied hydrogen bond partners in the ligand binding cavity (see **Figure 7**). These include the backbone carbonyl group of Phe-271 and the sidechain Og atoms of Thr-272 and Thr-316. Introduction of appropriately positioned hydrogen bond donating substituents on the ligand which form strong hydrogen bonds to one or more of these three hydrogen bond accepting groups in the receptor binding cavity will serve to enhance affinity.

The ligands produced in accordance with the invention bind more effectively to the LXR $\beta$  than TO901317. The ligand may bind with twice the binding affinity of TO901317, preferably three times the affinity, and most preferably ten or more times the affinity.

Preferably, the ligand produced in accordance with the invention occupies as much of the interior binding cavities of LXR $\beta$  as revealed by the LXR $\beta$ /T0901317 and LXR $\beta$ /GW-3965 complexes without perturbing the remainder of the LXR $\beta$  structure.

Preferably, the ligand produced in accordance with the invention also forms a hydrogen bond with the Ne atom of His-435 and at least one additional hydrogen bond to either Phe-271 (backbone carbonyl group), Thr-272 (Og), Ser-278 (Og), or Thr-316 (Og) of LXR $\beta$  without perturbing the remainder of the LXR $\beta$  structure.

## (2) Improved Selectivity

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The LXRβ receptor is very closely related to the LXRα and relatively closely related to the RXR, PXR, FXR, PPAR receptors. The RXR, PXR, FXR, PPAR receptors differ significantly in their primary sequence and slightly in their tertiary structure. As a consequence of these receptor differences, ligands may bind with different affinity to these four receptors.

The closest amino acid difference between LXR $\alpha$  and LXR $\beta$  in the vicinity of the bound ligand is Ala-294(a)/Thr-308(b). This is in turn next to Met-298(a)/312(b) which directly lines the binding cavity. Rotation about the  $c_3$  sidechain of to Met-298(a) is more facile in LXR $\alpha$  than in LXR $\beta$  due to the presence of the smaller Ala-294(a) residue. Therefore subsituents from the ligand which push on Met-298(a) will afford ligand that are selective for LXR $\alpha$  over LXR $\beta$ .

Furthermore, a detailed understanding of the different receptors enables the different behaviour of a compound in different tissues to be understood, for example the selective liver X receptor modulators (SLXRMs) on the tissue in which it is active. LXR $\alpha$  and LXR $\beta$  have different tissue distributions and therefore ligands which display LXR isoform binding selectivity will also display tissue selectivity.

The present invention provides new ligands which exploit these differences by positioning ligand substituents in close proximity to one or more amino acid residue that differ between LXRβ and RXR, PXR, FXR, PPAR.

The ligands produced in accordance with the invention bind more effectively to the LXR $\beta$  receptor than to the RXR, PXR, FXR, or PPAR receptor. The selectivity of the binding to the LXR $\beta$  receptor may be tenfold, more preferably one hundred-fold, and most preferably greater than one thousand-fold.

# (3) Modulation of Efficacy

This invention provides an understanding of the differences between LXR $\beta$  agonist and antagonist binding and therefore a means to design LXR $\beta$  ligands with the desired degree

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of efficacy. An examination of the differences between the ERa/estradiol (agonist; PDB accession code: 1ERE) and ERb/raloxifene (agonist; PDB accession code: 1ERR) complexes reveals a large movement in Helix-12. H12 adopts an "agonistic" conformation defined by the structure of the ERa/estradiol complex and an "antagonistic" conformation defined by the structure of the ERb/raloxifene complex. These two conformations are in thermodynamic equilibrium. When the ER is complexed with a full agonist, such as estradiol, the equilibrium lies far in the direction of the "agonistic" conformation. In contrast, while when complexed with an antagonist, the equilibrium is pushed in the direction of the "antagonistic" conformation. In the case of raloxifene ER ligand, the bulky side-chain collides with H12 in its agonistic conformation, thereby driving the equilibrium in the antagonistic direction. By introduction of progressively shorter side chains in raloxifene, the equilibrium will be gradually shifted back towards the agonist conformation. By analogy, replacement of one of the fluorine atoms of the hexafluoroisopropanol group of TO901317 will sterically collide with H12 in LXRB. Thus, this invention provides a means of developing ligands with the desired degree of efficacy (agonist, partial agonist, or antagonist).

In particular, the importance of H12 has been determined as playing a central role in determining the efficacy (agonism vs. antagonism) of a ligand. Thus, ligands which are able to bind to and/or alter the conformation of H12 are of particular importance when designing a ligand or assessing the binding of a ligand, for the LXR $\beta$  receptor.

Additionally, it has been found that at least the majority of such receptor proteins when activated by binding to an agonist ligand are in the form a dimer (Khorasanizadeh S, Rastinejad F. 2001). Such dimerization leads to a potential route for disruption. Disruptions of this type can be used to predict antagonism or to produce antagonists. Disruptions may take the form of ligand binding which alters the conformation of the helices that comprise the dimerization interface or direct binding to the dimerization interface which then inhibits dimerization.

Further, the orientation of the ligand may be keyed to the receptor, in the dimeric or monomeric form. Furthermore, using the crystals of the present invention, the influence of

ligand binding to the LDB on the receptor conformation can now be shown to have influences on the behaviour of the receptor since it may disrupt the binding of co-activator, co-repressor, or heat-shock proteins. Previously, such predictions could not me made.

# PRODUCTION OF LIVER X RECEPTOR 6 CRYSTALS AND THEIR APPLICATION

The present inventors have been able to isolate, differentiate and produce crystals for the liver X receptor b.

The crystal may be produced from a sequence comprising at least 250 amino acids, and preferably at least 200 amino acids of LXR $\beta$ . More preferably, the sequence comprises at least a portion of the ligand-binding domain of LXR $\beta$ . Alternatively, the sequence comprises the whole ligand-binding domain of LXR $\beta$ .

Advantageously, the crystals have a resolution determined by X-ray crystallography of less than 3.6 Å and most preferably less than 2.9 Å.

The production of such crystals has enabled the three dimensional structure of the ligand binding domain of LXR $\beta$  to be mapped. Use of such crystals in conjunction with the map enables a better understanding of how T0901317, GW3965 and other ligands bind to LXR $\beta$  with precision. This technique can also enable the design of receptor selective LXR $\beta$  agonists and antagonists since now the precise differences in the binding sites between LXR $\beta$  and the closely related LXR $\alpha$ .

Crystals of the LXR\$\beta\$ ligand-binding domain can be used as models in methods for the design of synthetic compounds intended to bind to the receptor. Such models show why very slight differences in chemical moieties of a ligand potentially have widely varying binding affinities. Hence, the three dimensional structure of the ligand binding domain can be used as a pharmaceutical model for compounds which bind to Liver X receptors.

Embodiments of the invention will now be described in more detail, by way of example, with reference to the accompanying drawing.

#### FIGURE LEGENDS

Figure 1. Cartoon view of the LXRβ receptor with labeled helices.

Figure 2 shows representative portions of a 2.4Å resolution SigmaA weighted 2
Fobs-Fcalc map where Fobs are the observed and Fcalc are the calculated structure-factor amplitutes and 2Fobs-Fcalc is the difference Fourier synthesis electron density map in which model error is reduced and electron density at the chosen contour (mesh diagram) approximates the molecular surface for the LXRβ/GW3965 complex. The structure of GW3965 (tube diagram) is fitted to the experimental electron density (mesh diagram).

Figure 3. Superposition of the LXRβ/T0901317 (carbons black) and the LXRβ/GW3965 (carbons light grey) complexes reveal dramatic changes in the ligand-binding pocket.

Figure 4. Residues that are within hydrogen bond distance or van der Waals (4.2 Å) distance to the ligand are labeled. Dashed lines indicate hydrogen bonds and lines indicate Van der Waals interactions. These interactions are shown in (a) for the LXR $\beta$ /T0901317 complex, and in (b) for the LXR $\beta$ /GW3965.

Figure 5(a). Full length natural sequence of human LXR $\beta$ .

Figure 5(b). The crystallized protein sequence with the first four non-LXR $\beta$  residues gshm and the remaining 213-416 originating from human LXR $\beta$ .

Figure 6. Interior binding cavity of the LXR $\beta$ /T0901317 complex (left) and LXR $\beta$ /GW-3965 (right). The Ca-trace of the protein is represented by solid line. The structure of the ligand T0901317 and GW-3965 ligands are represented by a ball-and-stick diagram. The binding cavity is represented by a transparent surface which is filled by PASS probe spheres (dots).

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Figure 7. Unsatisfied hydrogen bonding partners (backbone carbonyl groups of Phe-266, Phe-271, Met-312 and side-chain hydroxyl groups of Thr-272, Thr-316) as revealed by the LXRβ/T0901317 complex. Structure of T0901317 is represented by a capped sticks figure surrounded by the interior binding cavity of the receptor (transparent surface). Key amino acid residues are represented by labeled capped-stick. Hydrogen bonding accepting sites on the surface of the receptor binding cavity are represented by solid surfaces.

### DNA construction work

The human LXRβ sequence is publicly available with accession number P55055 (SwissProt.) (Shinar, D.M. et al. (1994)). A construct spanning Gly213-Glu461 with the addition of an N-terminal 6xHis tag was used in the present work. The His-tag was designed to be cleavable using thrombin.

### Protein production

The protein was expressed in *Escherichia coli* BL21 Star<sup>TM</sup> (DE3) cells (Invitrogen) using the pET28a expression system. Fermentation was carried out in batch culture (2xLB medium, 22°C) and expression of the recombinant protein was induced by the addition of 0.55mM IPTG (isopropyl-ß-D-thiogalactoside) at OD<sub>600</sub>=5.0. After 4h of induction the cells were harvested by centrifugation. The cell pellet was resuspended and washed once with buffer (20 mM HEPES pH 8.0, 100 mM KCl, 10% glycerol and 2.5 mM monothioglycerol). Final cell pellet was frozen at –70°C.

40g cells were lysed by glass beadbeater (BioSpec Products, Inc.) in extract buffer containing 50 mM Tris, pH8.8, 250 mM NaCl, 10% glycerol and 1 mM PMSF. Soluble protein extract were collected by centrifugation at 11000 rpm, 20 min in Sorvall RC-5B centrifuge (Du Pont-instrument AB), GSA rotor.

## Protein purification

Crude LXRβ was eluted from 25 ml Talon by 20 mM Tris, pH8.0, 100 mM imidazole. Further purification was achieved using anion-exchange chromatography (5 ml Hitrap Q FF ion exchange column, Amersham Bioscience), and applying a gradient from 0 to 250

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mM NaCl, pH8.0, eluted LXRβ. After thrombin cleavage, the final LXRβ (6-7 mg) fraction was obtained by running 4% acryl amide native gel electrophoresis in Tris-Epps buffer system.

# Protein quality analysis

To elucidate the homogeneity of LXR $\beta$ , throughout the purification samples were collected and run on SDS and native PAGE gels (Phast, Amersham Biosciences, Sweden). Reverse phase HPLC runs were performed on a Waters HPLC system (Waters, USA) at denaturing conditions. Typically, 100 ml sample was acidified by addition of 10% acidic acid (final concentration). A sample was injected and eluted in a 25-75% acetonitrile-water gradient in 0.1% triflouroacidic acid at 1 ml/min. The method proved to be very useful to reveal problems with ligand binding and LXR $\beta$  stability and for determine the concentration and LXR $\beta$ -ligand ratio.

# Crystallization and data collection

Crystallization was carried out using the hanging drop vapour-diffusion technique. Both LXRβ-GW9365 and LXRβ-T0901317 crystals were grown from buffer containing 8.5% iso-propanol, 17% PEG 4000, 85 mM HEPES, pH7.5, and 15% Glycerol at room temperature. The first LXRβ/T0901317 crystals formed in the P6122 space group, with a=b=58.7,c=293.8 and diffracted to better than 3 Å. In the same drops another crystal form was later detected belonging to the P212121 space group. Before data collection, crystals were flash-frozen in the 100 K nitrogen gas stream of an Oxford cryostream700. Data was either collected with an MAR345 image plate detector using X-rays from a Rigaku H3R rotating anode generator + Osmic Confocal Max-Fluxä optics or with a ADSC Q4R CCD at Experimental Station ID14-4 at ESRF. The observed reflections where reduced, merged and scaled with MOSFLM, and Scala in the CCP4 package.

# Structure determination and refinement

The structure was determined by molecular replacement methods with the CCP4 AmoRe program (Acta. Cryst. D50 (1994), pages 760-763), using an LXRβ homology model based on a thyroid hormone receptorb structures (Protein Databank Accession Code 1NAX). A publicly available structure such as 1bsx.pdb, from the Protein Data Bank, could also have been used to create the model. The molecular replacement was done on the first 3 Å data of LXRβ/T0901317 crystallized in P6122 and revealed one monomer per asymmetric unit. The crystal packing along one of the 2-folds revealed that the protein formed a tight homodimer, which allowed us to use the homodimer to search the second crystal form P212121 that gave 2 homodimers in the asymmetric unit. Electron densities for the T0901317 ligand confirmed the solutions of the molecular replacement. Model building was done with O and refinement initially with CNX and later with the CCP4 Refmac program and manual rebuilding. The four monomer complexes where treated as single TLS groups in Refmac which gave more interpretable electron density maps and improved the R-factors substantially.

Table 1 Summary of data collection, processing and refinement.

Table 1. Summary of d	ata collection, proce	essing and refinement.
Complex	LxRβ/T0901317	LxRβ/GW3965
Data collection		
Source	In house	ID14 EH4 ESRF
Space group	P212121	P212121
Unit cell parameters		
a	58.7	58.7
b	103.3	98.9
c	176.0	175.8
Resolution	2.8 Å	2.4 (2.4-2.53)
	(2.8-2.95Å)	
Observations		
Unique	27153	37733
Total	92460	1129438
Completeness (%)	99.9 (99.7)	98.5(95.4)
<i> / <s(i)></s(i)></i>	7.6 (1.9)	8.8(3.5)
Rsym %	8.4 (40.2)	5.0(21.8)
Refinement		
Rwork	19.5 (27.9)	20.7(21.8)
Rfree	26.2 (34.8)	26.3(29.6)
Number of atoms	7782	7673
R.m.s deviation		
Bonds (Å)	0.016	0.016
Angles (°)	1.49	1.36
Average B-factor	24.3	23.1
$(\mathring{A}^2)$		

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TITLE 2 KB043546/WAY207380/GW3965 COMPLEX

REMARK

REMARK

REMARK ATOMIC COORDINATES OF A CRYSTAL STRUCTURE

REMARK

REMARK DEPOSITOR: MATHIAS FARNEGARDH

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REMARK THAT COULD BE BUILT INTO INTERPRETABLE ELECTRON

DENSITIES

REMARK IT CONTAINS 4 INDEPENDENTLY REFINED PROTEIN MONOMERS

REMARK CHAIN A 220-242, 247-253, 259-460 (HIS460 MODELLED AS ALA)

REMARK A500 IS THE LIGAND

REMARK CHAIN B 220-460 (HIS460 MODELLED AS ALA) B500 IS THE LIGAND

REMARK CHAIN C 220-252, 264-438 THERE ARE WEAK DENSITIES

SUGGESTING A LOW

REMARK OCCUPANCY OF THE LIGAND. EXPERIMENTS TO ESTIMATE THE OCCUPANCY

REMARK SUGGESTS AN OCCUPANCY AROUND 0.5-0.6. THERE ARE ALSO SOME WEAK BUT

REMARK UNINTERPRETABLE DENSITY IN THE REGION WHERE H12 SITS IN THE A B AND

REMARK D CHAINS.

PCT/IB2003/006412 WO 2004/058819

29

REMARK CHAIN D 220-244, 248-254, 263-444, 448-460 (HIS460 MODELLED AS ALA) REMARK D500 IS THE LIGAND REMARK THE PROTEIN CRYSTALLIZED CONTAIN RESIDUES 213-461, THE **GAPS IN THE** REMARK STRUCTURE ARE DUE TO UNINTERPRETABLE **ELECTRONDENSITIES IN THESE** REMARK PARTICUALR REGIONS HEADER LXRB+KB043546/WAY207380/GW3965 05-SEP-02 XXXX COMPND MOL ID: 1; COMPND 2 MOLECULE: LIVER X RECEPTOR BETA; COMPND 3 CHAIN: A, B, C, D; COMPND 4 FRAGMENT: LIGAND BINDING DOMAIN; COMPND 5 SYNONYM: LXRB; REMARK 3 REMARK 3 REFINEMENT. REMARK 3 PROGRAM : REFMAC 5.1.19 REMARK 3 AUTHORS : MURSHUDOV, VAGIN, DODSON REMARK 3 REMARK 3 REFINEMENT TARGET: MAXIMUM LIKELIHOOD REMARK 3 REMARK 3 DATA USED IN REFINEMENT. REMARK 3 RESOLUTION RANGE HIGH (ANGSTROMS): 2.40 REMARK 3 RESOLUTION RANGE LOW (ANGSTROMS): 87.71 REMARK 3 DATA CUTOFF (SIGMA(F)): NONE REMARK 3 COMPLETENESS FOR RANGE (%): 98.41 REMARK 3 NUMBER OF REFLECTIONS : 38254 REMARK 3 REMARK 3 FIT TO DATA USED IN REFINEMENT. REMARK 3 CROSS-VALIDATION METHOD : THROUGHOUT REMARK 3 FREE R VALUE TEST SET SELECTION: RANDOM REMARK 3 R VALUE (WORKING + TEST SET): 0.20934 REMARK 3 R VALUE (WORKING SET): 0.20655 REMARK 3 FREE R VALUE : 0.26237 REMARK 3 FREE R VALUE TEST SET SIZE (%): 5.0 REMARK 3 FREE R VALUE TEST SET COUNT : 2021 REMARK 3 REMARK 3 FIT IN THE HIGHEST RESOLUTION BIN. REMARK 3 TOTAL NUMBER OF BINS USED 20 REMARK 3 BIN RESOLUTION RANGE HIGH : 2.400 REMARK 3 BIN RESOLUTION RANGE LOW : 2.462 REMARK 3 REFLECTION IN BIN (WORKING SET): 2689 REMARK 3 BIN R VALUE (WORKING SET): 0.218 REMARK 3 BIN FREE R VALUE SET COUNT : 0.296 REMARK 3 BIN FREE R VALUE REMARK 3 REMARK 3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.

REMARK 3 ALL ATOMS : 7673

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REMARK 3 FROM WILSON PLOT
                                (A**2): NULL
REMARK 3 MEAN B VALUE (OVERALL, A**2): 23.076
REMARK 3 OVERALL ANISOTROPIC B VALUE.
REMARK 3 B11 (A**2): -0.75
REMARK 3 B22 (A**2): 1.03
REMARK 3 B33 (A**2): -0.28
REMARK 3 B12 (A**2): 0.00
REMARK 3 B13 (A**2): 0.00
REMARK 3 B23 (A**2): 0.00
REMARK 3
REMARK 3 ESTIMATED OVERALL COORDINATE ERROR.
                                           (A): 0.511
REMARK 3 ESU BASED ON R VALUE
                                              (A): 0.288
REMARK 3 ESU BASED ON FREE R VALUE
REMARK 3 ESU BASED ON MAXIMUM LIKELIHOOD
                                                   (A): 0.208
REMARK 3 ESU FOR B VALUES BASED ON MAXIMUM LIKELIHOOD (A**2):
8.796
REMARK 3
REMARK 3 CORRELATION COEFFICIENTS.
REMARK 3 CORRELATION COEFFICIENT FO-FC : 0.939
REMARK 3 CORRELATION COEFFICIENT FO-FC FREE: 0.901
REMARK 3
REMARK 3 RMS DEVIATIONS FROM IDEAL VALUES
                                               COUNT RMS
WEIGHT
REMARK 3 BOND LENGTHS REFINED ATOMS
                                          (A): 7652; 0.016; 0.022
REMARK 3 BOND LENGTHS OTHERS
                                      (A): 7154; 0.003; 0.020
REMARK 3 BOND ANGLES REFINED ATOMS (DEGREES): 10342; 1.363; 1.979
                                  (DEGREES): 16577; 0.924; 3.000
REMARK 3 BOND ANGLES OTHERS
REMARK 3 TORSION ANGLES, PERIOD 1 (DEGREES): 898; 5.477; 5.000
                                       (A**3): 1164; 0.083; 0.200
REMARK 3 CHIRAL-CENTER RESTRAINTS
REMARK 3 GENERAL PLANES REFINED ATOMS (A): 8318; 0.005; 0.020
                                       (A): 1612; 0.004; 0.020
REMARK 3 GENERAL PLANES OTHERS
REMARK 3 NON-BONDED CONTACTS REFINED ATOMS (A): 1763; 0.203;
0.200
REMARK 3 NON-BONDED CONTACTS OTHERS
                                           (A): 8183; 0.216; 0.200
REMARK 3 NON-BONDED TORSION OTHERS
                                          (A): 4673; 0.086; 0.200
                                        (A): 186; 0.209; 0.200
REMARK 3 H-BOND (X...Y) REFINED ATOMS
REMARK 3 SYMMETRY VDW REFINED ATOMS
                                           (A): 22; 0.174; 0.200
                                       (A): 98; 0.237; 0.200
REMARK 3 SYMMETRY VDW OTHERS
REMARK 3 SYMMETRY H-BOND REFINED ATOMS (A): 8;0.142;0.200
REMARK 3
REMARK 3 ISOTROPIC THERMAL FACTOR RESTRAINTS. COUNT RMS
WEIGHT
REMARK 3 MAIN-CHAIN BOND REFINED ATOMS (A**2): 4554; 0.534; 1.500
REMARK 3 MAIN-CHAIN ANGLE REFINED ATOMS (A**2): 7368; 1.039; 2.000
REMARK 3 SIDE-CHAIN BOND REFINED ATOMS (A**2): 3098; 1.749; 3.000
REMARK 3 SIDE-CHAIN ANGLE REFINED ATOMS (A**2): 2974; 2.997: 4.500
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REMARK 3
REMARK 3 NCS RESTRAINTS STATISTICS
REMARK 3 NUMBER OF NCS GROUPS: NULL
REMARK 3
REMARK 3
REMARK 3 TLS DETAILS
REMARK 3 NUMBER OF TLS GROUPS: NULL
REMARK 3
REMARK 3
REMARK 3 BULK SOLVENT MODELLING.
REMARK 3 METHOD USED: BABINET MODEL WITH MASK
REMARK 3 PARAMETERS FOR MASK CALCULATION
REMARK 3 VDW PROBE RADIUS: 1.40
REMARK 3 ION PROBE RADIUS: 0.80
REMARK 3 SHRINKAGE RADIUS: 0.80
REMARK 3
REMARK 3 OTHER REFINEMENT REMARKS:
REMARK 3 HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS
REMARK 3
                             PRO A 247
LINK
           SER A 242
                                              gap
                              ALA A 259
LINK
          PRO A 253
                                              gap
                             ARG C 264
          TRP C 252
                                              gap
LINK
          SER D 244
                             LYS D 248
                                              gap
LINK
                             ALA D 263
LINK
          LEU D 254
                                              gap
          LEU D 444
                             LYS D 448
                                              gap
LINK
CRYST1 58.717 98.929 175.815 90.00 90.00 90.00 P 21 21 21
          0.017031 0.000000 0.000000
                                     0.00000
SCALE1
          0.000000 0.010108 0.000000
                                     0.00000
SCALE2
          0.000000 0.000000 0.005688
                                     0.00000
SCALE3
                         25.060 40.930 59.913 1.00 15.13
                                                         N
ATOM
        1 N LEU A 220
                          26.289 40.159 60.353 1.00 15.45
                                                          C
        3 CA LEU A 220
ATOM
                         27.291 39.950 59.207 1.00 15.67
                                                          \mathbf{C}
        5 CB LEU A 220
ATOM
                                                          C
                          27.116 38.849 58.140 1.00 17.66
        8 CG LEU A 220
ATOM
ATOM
        10 CD1 LEU A 220
                           28.185 38.981 57.007 1.00 17.73
                                                           C
                           27.141 37.466 58.708 1.00 17.30
                                                           C
        14 CD2 LEU A 220
ATOM
        18 C LEU A 220
                         26.986 40.905 61.486 1.00 14.86
                                                          C
ATOM
                         27.349 42.061 61.313 1.00 13.74
                                                          O
        19 O LEU A 220
ATOM
        22 N THR A 221
                          27.168 40.237 62.630 1.00 14.79
                                                          N
ATOM
                          27.969 40.775 63.735 1.00 15.28
                                                          C
        24 CA THR A 221
ATOM
                          27.770 39.961 65.068 1.00 14.97
                                                          \mathbf{C}
        26 CB THR A 221
ATOM
                           28.449 38.717 64.998 1.00 15.18
                                                           0
ATOM
        28 OG1 THR A 221
                           26.346 39.558 65.290 1.00 16.01
                                                           C
        30 CG2 THR A 221
ATOM
                         29.479 40.828 63.378 1.00 15.09
                                                          C
        34 C THR A 221
ATOM
                          29.945 40.137 62.487 1.00 14.81
                                                          O
        35 O THR A 221
ATOM
                          30.220 41.648 64.105 1.00 15.21
                                                          N
        36 N ALA A 222
ATOM
        38 CA ALA A 222
                          31.673 41.759 63.960 1.00 15.24
                                                          C
ATOM
                         32.183 42.803 64.908 1.00 15.12
                                                          C
        40 CB ALA A 222
ATOM
                                                          C
        44 C ALA A 222
                         32.421 40.431 64.177 1.00 15.76
ATOM
```

ATOM	45 O ALA A 222	33.417 40.152 63.507 1.00 16.04	0
ATOM	46 N ALA A 223	31.952 39.609 65.108 1.00 15.81	N
ATOM	48 CA ALA A 223	32.576 38.301 65.341 1.00 15.78	С
ATOM	50 CB ALA A 223	31.954 37.600 66.563 1.00 15.45	С
<b>ATOM</b>	54 C ALA A 223	32.422 37.402 64.114 1.00 16.06	C
ATOM	55 O ALA A 223	33.327 36.657 63.773 1.00 16.18	0
<b>ATOM</b>	56 N GLN A 224	31.243 37.424 63.507 1.00 15.96	N
ATOM	58 CA GLN A 224	30.985 36.638 62.309 1.00 16.40	С
<b>ATOM</b>	60 CB GLN A 224	29.479 36.583 61.976 1.00 16.76	C
ATOM	63 CG GLN A 224	28.626 35.831 62.969 1.00 16.46	С
ATOM	66 CD GLN A 224	27.129 35.920 62.618 1.00 17.67	С
<b>ATOM</b>	67 OE1 GLN A 224	26.636 36.996 62.252 1.00 16.55	O
<b>ATOM</b>	68 NE2 GLN A 224	26.411 34.785 62.731 1.00 14.22	N
MOTA	71 C GLN A 224	31.741 37.181 61.106 1.00 15.81	C
<b>ATOM</b>	72 O GLN A 224	32.261 36.418 60.344 1.00 15.71	О
ATOM	73 N GLU A 225	31.816 38.490 60.933 1.00 16.23	N ·
ATOM	75 CA GLU A 225		С
ATOM	77 CB GLU A 225	32.440 40.554 59.707 1.00 17.63	С
ATOM	80 CG GLU A 225		С
ATOM	83 CD GLU A 225		С
ATOM		32.021 42.978 58.212 1.00 32.71	О
ATOM	85 OE2 GLU A 225	29.883 42.995 58.837 1.00 28.94	0
ATOM	86 C GLU A 225	34.116 38.668 60.044 1.00 16.92	C
ATOM	87 O GLU A 225	34.793 38.247 59.108 1.00 15.82	О
<b>ATOM</b>	88 N LEU A 226	34.604 38.786 61.279 1.00 17.48	N
ATOM	90 CA LEU A 226	35.961 38.343 61.622 1.00 17.76	С
ATOM	92 CB LEU A 226	36.204 38.469 63.124 1.00 17.63	С
<b>ATOM</b>	95 CG LEU A 226		C
ATOM		38.661 38.747 63.038 1.00 17.37	C
<b>ATOM</b>	101 CD2 LEU A 226	37.599 38.118 65.172 1.00 19.01	C
<b>ATOM</b>	105 C LEU A 226	36.238 36.910 61.164 1.00 18.47	C
<b>ATOM</b>	106 O LEU A 226	37.164 36.666 60.408 1.00 17.08	О
<b>ATOM</b>		35.391 35.991 61.610 1.00 19.43	N
<b>ATOM</b>	109 CA MET A 227	35.537 34.586 61.306 1.00 21.31	C
<b>ATOM</b>	111 CB MET A 227	34.540 33.752 62.145 1.00 22.11	C
<b>ATOM</b>	114 CG MET A 227	33.506 32.925 61.415 1.00 28.34	C
<b>ATOM</b>	117 SD MET A 227	32.334 31.905 62.531 1.00 38.91	S
<b>ATOM</b>	118 CE MET A 227	32.594 32.703 64.096 1.00 37.78	С
<b>ATOM</b>	122 C MET A 227	35.471 34.293 59.792 1.00 20.86	С
<b>ATOM</b>	123 O MET A 227	36.271 33.518 59.281 1.00 20.78	O
<b>ATOM</b>	124 N ILE A 228	34.561 34.928 59.069 1.00 20.14	N
ATOM	126 CA ILE A 228	34.417 34.632 57.652 1.00 19.44	С
<b>ATOM</b>	128 CB ILE A 228	33.183 35.310 57.083 1.00 19.42	С
ATOM	130 CG1 ILE A 228	31.921 34.621 57.618 1.00 19.46	С
ATOM	133 CD1 ILE A 228	30.696 35.544 57.670 1.00 19.93	C
ATOM	137 CG2 ILE A 228	33.225 35.310 55.549 1.00 19.80	С
ATOM	141 C ILE A 228	35.663 35.106 56.928 1.00 19.44	C
ATOM	142 O ILE A 228	36.234 34.375 56.131 1.00 18.34	О

ATOM	143 N GLN A 229	36.078 36.332 57.238 1.00 19.45	N
ATOM	145 CA GLN A 229	37.226 36.954 56.618 1.00 19.60	С
ATOM	147 CB GLN A 229	37.392 38.404 57.120 1.00 19.49	С
ATOM	150 CG GLN A 229		C
ATOM	153 CD GLN A 229	36.463 40.823 57.104 1.00 24.05	C
ATOM	154 OE1 GLN A 229	35.688 41.697 56.683 1.00 25.94	О
ATOM	155 NE2 GLN A 229	37.375 41.065 58.057 1.00 21.74	N
ATOM	158 C GLN A 229	38.489 36.159 56.869 1.00 20.06	C
ATOM	159 O GLN A 229	39.393 36.157 56.025 1.00 21.36	О
ATOM	160 N GLN A 230	38.562 35.521 58.037 1.00 20.08	N
ATOM	162 CA GLN A 230	39.694 34.722 58.456 1.00 20.38	C
ATOM	164 CB GLN A 230	39.474 34.252 59.910 1.00 21.01	C
ATOM	167 CG GLN A 230	40.644 33.461 60.547 1.00 22.28	С
ATOM	170 CD GLN A 230	41.861 34.338 60.826 1.00 23.50	C
ATOM	171 OE1 GLN A 230	41.826 35.548 60.575 1.00 27.54	О
ATOM	172 NE2 GLN A 230	42.934 33.742 61.355 1.00 24.11	N
ATOM	175 C GLN A 230	39.825 33.504 57.541 1.00 20.37	С
<b>ATOM</b>	176 O GLN A 230	40.901 33.189 57.052 1.00 21.03	О
ATOM	177 N LEU A 231	38.711 32.825 57.332 1.00 19.33	N
ATOM	179 CA LEU A 231	38.644 31.704 56.406 1.00 19.15	C
ATOM	181 CB LEU A 231	37.245 31.055 56.426 1.00 18.97	C
ATOM	184 CG LEU A 231	36.651 30.604 57.755 1.00 18.51	C
ATOM	186 CD1 LEU A 231	35.259 30.038 57.502 1.00 19.61	С
ATOM	190 CD2 LEU A 231	37.532 29.608 58.408 1.00 17.58	С
ATOM	194 C LEU A 231	38.981 32.098 54.965 1.00 18.07	C
ATOM	195 O LEU A 231	39.733 31.404 54.303 1.00 19.06	О
ATOM	196 N VAL A 232	38.404 33.171 54.471 1.00 16.56	N
ATOM	198 CA VAL A 232	38.659 33.594 53.111 1.00 16.52	C
ATOM	200 CB VAL A 232	37.793 34.826 52.744 1.00 16.05	С
ATOM	202 CG1 VAL A 232	38.277 35.487 51.440 1.00 14.87	C
ATOM	206 CG2 VAL A 232	36.362 34.416 52.610 1.00 15.09	C
ATOM	210 C VAL A 232	40.161 33.904 52.906 1.00 17.56	C
ATOM		40.760 33.501 51.895 1.00 17.08	О
<b>ATOM</b>	212 N ALA A 233	40.753 34.635 53.853 1.00 18.36	N
<b>ATOM</b>	214 CA ALA A 233	42.157 35.053 53.738 1.00 19.26	С
<b>ATOM</b>	216 CB ALA A 233	42.466 36.197 54.723 1.00 18.99	С
<b>ATOM</b>	220 C ALA A 233	43.106 33.877 53.958 1.00 20.32	С
<b>ATOM</b>	221 O ALA A 233	44.184 33.833 53.399 1.00 19.59	О
<b>ATOM</b>	222 N ALA A 234	42.683 32.913 54.764 1.00 22.20	N
<b>ATOM</b>	224 CA ALA A 234	43.476 31.728 55.028 1.00 23.33	С
<b>ATOM</b>	226 CB ALA A 234	42.855 30.940 56.122 1.00 23.33	C
<b>ATOM</b>	230 C ALA A 234	43.522 30.910 53.763 1.00 24.99	С
<b>ATOM</b>	231 O ALA A 234	44.540 30.367 53.402 1.00 24.97	0
ATOM	232 N GLN A 235	42.386 30.841 53.087 1.00 26.96	N
<b>ATOM</b>	234 CA GLN A 235	42.237 30.049 51.885 1.00 28.40	С
<b>ATOM</b>	236 CB GLN A 235	40.751 30.006 51.494 1.00 28.71	C
<b>ATOM</b>	239 CG GLN A 235	40.451 29.293 50.198 1.00 31.32	С
ATOM	242 CD GLN A 235	39.275 28.371 50.317 1.00 34.64	С

ATOM	243 OE1 GLN A 235	38.141 28.830 50.488 1.00 37.17	Ο
ATOM	244 NE2 GLN A 235	39.531 27.061 50.238 1.00 34.51	N
ATOM	247 C GLN A 235	43.116 30.603 50.775 1.00 28.96	С
ATOM	248 O GLN A 235		О
ATOM	249 N LEU A 236	43.120 31.915 50.619 1.00 30.11	N
ATOM	251 CA LEU A 236		С
ATOM	253 CB LEU A 236	43.509 34.041 49.522 1.00 31.53	C
ATOM	256 CG LEU A 236	44.041 34.966 48.423 1.00 33.04	C
ATOM	258 CD1 LEU A 236	44.646 34.248 47.195 1.00 34.47	С
ATOM	262 CD2 LEU A 236	42.890 35.882 47.971 1.00 34.38	C
ATOM	266 C LEU A 236	45.480 32.526 49.948 1.00 32.20	С
ATOM	267 O LEU A 236	46.294 32.434 49.037 1.00 31.58	Ο
ATOM	268 N GLN A 237	45.868 32.576 51.218 1.00 33.32	N
ATOM	270 CA GLN A 237	47.283 32.480 51.567 1.00 34.44	С
ATOM	272 CB GLN A 237	47.552 33.065 52.967 1.00 34.50	С
ATOM	275 CG GLN A 237	49.027 33.026 53.460 1.00 35.10	С
ATOM	278 CD GLN A 237	50.040 33.693 52.509 1.00 36.63	С
ATOM	279 OE1 GLN A 237	49.791 34.772 51.957 1.00 36.48	0
ATOM	280 NE2 GLN A 237	51.192 33.048 52.335 1.00 36.81	N
ATOM	283 C GLN A 237	47.786 31.035 51.423 1.00 35.77	C
ATOM	284 O GLN A 237	48.955 30.838 51.129 1.00 35.62	O
ATOM	285 N CYS A 238	46.912 30.034 51.597 1.00 37.59	N
ATOM	287 CA CYS A 238	47.301 28.615 51.438 1.00 39.46	C
ATOM	289 CB CYS A 238	46.237 27.649 51.999 1.00 39.59	C
ATOM	292 SG CYS A 238	46.181 27.601 53.804 1.00 40.56	S
ATOM	293 C CYS A 238		C
ATOM	294 O CYS A 238		O
ATOM	295 N ASN A 239	46.682 28.890 49.141 1.00 42.10	N
ATOM	297 CA ASN A 239	46.776 28.758 47.709 1.00 43.09	С
ATOM	299 CB ASN A 239		С
ATOM	302 CG ASN A 239		С
<b>ATOM</b>	303 OD1 ASN A 239		О
ATOM	304 ND2 ASN A 239		N
ATOM	307 C ASN A 239	48.016 29.479 47.151 1.00 43.48	С
ATOM	308 O ASN A 239	48.809 28.885 46.422 1.00 43.67	О
ATOM	309 N LYS A 240	48.177 30.748 47.520 1.00 43.94	N
ATOM	311 CA LYS A 240	49.254 31.612 47.027 1.00 44.29	С
ATOM	313 CB LYS A 240	49.130 33.007 47.666 1.00 44.30	С
ATOM	316 CG LYS A 240	50.205 34.017 47.283 1.00 45.01	С
ATOM	319 CD LYS A 240	51.068 34.463 48.497 1.00 45.64	C
ATOM	322 CE LYS A 240	52.528 34.788 48.123 1.00 45.21	С
ATOM	325 NZ LYS A 240	52.900 36.182 48.506 1.00 44.45	N
ATOM	329 C LYS A 240	50.638 31.015 47.284 1.00 44.77	С
ATOM	330 O LYS A 240	51.494 31.006 46.389 1.00 44.94	Ο
ATOM	331 N ARG A 241	50.853 30.484 48.484 1.00 45.29	N
ATOM	333 CA ARG A 241	52.161 29.936 48.844 1.00 45.73	C
ATOM	335 CB ARG A 241	52.324 29.860 50.375 1.00 45.60	C
ATOM	338 CG ARG A 241	51.814 28.620 51.057 1.00 45.93	С

	·	35	
ATOM	341 CD ARG A 241	51.894 28.707 52.573 1.00 45.89	С
ATOM		53.247 28.478 53.068 1.00 45.29	N
ATOM	346 CZ ARG A 241		С
ATOM		52.652 27.064 54.823 1.00 45.14	N
ATOM	350 NH2 ARG A 241	54.853 27.593 54.452 1.00 46.29	N
ATOM	353 C ARG A 241		<b>C</b>
ATOM	354 O ARG A 241	53.655 28.377 47.773 1.00 46.44	O
ATOM	355 N SER A 242	51.511 27.748 47.899 1.00 46.59	N
ATOM	357 CA SER A 242		С
ATOM	359 CB SER A 242		С
ATOM		50.717 25.193 48.986 1.00 47.56	Ο
ATOM	364 C SER A 242	51.857 26.576 45.674 1.00 46.93	С
ATOM	365 O SER A 242	51.601 27.632 45.077 1.00 46.82	0
ATOM	366 N PRO A 247	54.724 22.837 43.959 1.00 33.07	N
ATOM		56.172 22.670 43.748 1.00 33.14	С
ATOM	369 CB PRO A 247	56,700 22,242 45,132 1,00 33,12	С
ATOM	372 CG PRO A 247	55.471 22.096 46.032 1.00 33.34	С
ATOM	375 CD PRO A 247		С
ATOM	378 C PRO A 247	56.500 21.607 42.698 1.00 32.82	C
ATOM	379 O PRO A 247	55.578 20.966 42.176 1.00 33.05	О
ATOM	380 N LYS A 248		N
ATOM		- 58.371 20.452 41.487 1.00 31.95	C
ATOM	384 CB LYS A 248	59.853 20.133 41.830 1.00 32.14	C
ATOM		60.544 20.953 42.964 1.00 33.20	C
ATOM	390 CD LYS A 248	59.958 20.695 44.399 1.00 34.19	С
ATOM	393 CE LYS A 248	61.060 20.551 45.479 1.00 35.05	С
ATOM	396 NZ LYS A 248	61.959 21.762 45.631 1.00 35.51	N
<b>ATOM</b>	400 C LYS A 248	57.594 19.135 41.431 1.00 31.29	C
<b>ATOM</b>	401 O LYS A 248	57.233 18.584 42.470 1.00 31.80	O
<b>ATOM</b>	402 N VAL A 249	57.362 18.624 40.222 1.00 30.21	N
<b>ATOM</b>	404 CA VAL A 249	56.507 17.444 40.034 1.00 29.34	С
<b>ATOM</b>	406 CB VAL A 249		C
<b>ATOM</b>	408 CG1 VAL A 249	54.175 17.827 40.936 1.00 28.98	C
<b>ATOM</b>	412 CG2 VAL A 249		С
ATOM	416 C VAL A 249	57.013 16.505 38.944 1.00 28.28	C
ATOM	417 O VAL A 249	57.743 16.920 38.067 1.00 28.23	0
ATOM	418 N THR A 250	56.601 15.242 39.000 1.00 27.22	N
ATOM	420 CA THR A 250	56.939 14.280 37.960 1.00 26.62	С
ATOM	422 CB THR A 250	56.376 12.874 38.282 1.00 26.66	C
ATOM	424 OG1 THR A 250	56.952 12.373 39.496 1.00 26.45	O
ATOM	426 CG2 THR A 250	56.790 11.864 37.223 1.00 25.61	С
ATOM	430 C THR A 250	56.327 14.775 36.656 1.00 26.23	С
ATOM	431 O THR A 250	55.129 15.061 36.626 1.00 25.74	0
ATOM	432 N PRO A 251	57.140 14.913 35.602 1.00 25.92	N
ATOM	433 CA PRO A 251	56.645 15.329 34.276 1.00 25.62	C
ATOM	435 CB PRO A 251	57.875 15.215 33.373 1.00 25.90	C
ATOM	438 CG PRO A 251	59.057 15.249 34.281 1.00 26.42	C
ATOM	441 CD PRO A 251	58.606 14.750 35.618 1.00 26.02	С

ATOM	444 C PRO A 251	55.520 14.462 33.697 1.00 25.11	C
ATOM	445 O PRO A 251	55.559 13.224 33.769 1.00 25.06	0
ATOM	446 N TRP A 252	54.517 15.146 33.148 1.00 24.35	N
ATOM	448 CA TRP A 252	53.417 14.522 32.429 1.00 23.64	C
ATOM	450 CB TRP A 252	52.293 15.552 32.276 1.00 23.52	C
ATOM	453 CG TRP A 252	51.105 15.050 31.558 1.00 23.17	C
ATOM	454 CD1 TRP A 252	50.777 15.287 30.258 1.00 22.55	C
ATOM	456 NE1 TRP A 252	49.596 14.657 29.951 1.00 23.51	N
ATOM	458 CE2 TRP A 252	49.138 13.997 31.062 1.00 22.59	C
ATOM	459 CD2 TRP A 252	50.069 14.223 32.093 1.00 22.56	C
ATOM	460 CE3 TRP A 252		C
ATOM	462 CZ3 TRP A 252		C
ATOM	464 CH2 TRP A 252	47.794 12.675 32.470 1.00 22.15	C
ATOM	466 CZ2 TRP A 252	47.998 13.221 31.239 1.00 21.90	C
ATOM	468 C TRP A 252	53.938 14.085 31.054 1.00 22.99	C
ATOM	469 O TRP A 252	54.552 14.888 30.366 1.00 22.61	0
ATOM	470 N PRO A 253	53.712 12.832 30.655 1.00 22.60	N
ATOM	471 CA PRO A 253	54.294 12.306 29.406 1.00 22.65	C
<b>ATOM</b>	473 CB PRO A 253	54.162 10.786 29.569 1.00 22.52	C
ATOM	476 CG PRO A 253	52.959 10.615 30.439 1.00 22.86	C
ATOM	479 CD PRO A 253	52.896 11.821 31.350 1.00 22.50	C
ATOM	482 C PRO A 253	53.567 12.775 28.143 1.00 22.39	C
ATOM	483 O PRO A 253	52.382 12.466 28.027 1.00 22.25	0
ATOM	484 N ALA A 259	49.422 3.445 24.159 1.00 31.79	N
ATOM	486 CA ALA A 259	49.766 3.864 25.510 1.00 31.96	C
ATOM	488 CB ALA A 259	48.535 4.456 26.212 1.00 31.97	C
ATOM	492 C ALA A 259	50.350 2.701 26.333 1.00 31.93	C
ATOM	493 O ALA A 259	49.638 1.749 26.675 1.00 32.13	0
ATOM	494 N ALA A 260	51.640 2.801 26.662 1.00 31.62	N
ATOM	496 CA ALA A 260	52.345 1.774 27.434 1.00 31.36	C
ATOM	498 CB ALA A 260	53.865 1.966 27.289 1.00 31.43	C
ATOM	502 C ALA A 260	51.947 1.741 28.922 1.00 31.15	C
ATOM	503 O ALA A 260	51.163 2.575 29.397 1.00 30.98	0
ATOM	504 N ALA A 261	52.501 0.761 29.644 1.00 30.82	N
ATOM		52.275 0.590 31.086 1.00 30.41	C
ATOM	508 CB ALA A 261	52.496 -0.869 31.499 1.00 30.46	C
ATOM	512 C ALA A 261	53.166 1.517 31.925 1.00 30.11	C
ATOM	513 O ALA A 261	52.736 1.981 32.996 1.00 29.75	0
ATOM	514 N ASP A 262	54.399 1.760 31.451 1.00 29.31	N
ATOM	516 CA ASP A 262	55.285 2.780 32.038 1.00 28.85	C
<b>ATOM</b>	518 CB ASP A 262	56.591 2.920 31.242 1.00 28.92	C
ATOM	521 CG ASP A 262	57.601 1.814 31.539 1.00 29.74	C
ATOM	522 OD1 ASP A 262	57.785 1.456 32.726 1.00 30.32	0
ATOM	523 OD2 ASP A 262		0
ATOM	524 C ASP A 262	54.600 4.156 32.073 1.00 28.24	C
ATOM	525 O ASP A 262	54.760 4.915 33.035 1.00 27.58	0.
ATOM		53.852 4.460 31.010 1.00 27.62	N
ATOM	528 CA ALA A 263	53.199 5.757 30.842 1.00 27.34	С

ATOM	530 CB ALA A 263	52.822 5.971 29.392 1.00 27.27	C
ATOM	534 C ALA A 263	51.969 5.921 31.736 1.00 27.01	С
ATOM	535 O ALA A 263	51.722 7.012 32.239 1.00 26.97	Ο
ATOM	536 N ARG A 264	51.199 4.846 31.910 1.00 26.59	N
ATOM	538 CA ARG A 264	50.094 4.819 32.875 1.00 26.11	С
ATOM	540 CB ARG A 264	49.450 3.409 32.930 1.00 26.56	С
ATOM	543 CG ARG A 264	47.907 3.344 33.034 1.00 27.65	C
ATOM	546 CD ARG A 264	47.294 1.976 32.598 1.00 30.14	С
ATOM	549 NE ARG A 264	46.214 2.120 31.602 1.00 32.09	N
ATOM	551 CZ ARG A 264	44.891 2.012 31.846 1.00 33.53	C
ATOM	552 NH1 ARG A 264	44.417 1.722 33.059 1.00 33.09	N
ATOM	555 NH2 ARG A 264	44.022 2.186 30.852 1.00 34.09	N
ATOM	558 C ARG A 264	50.657 5.241 34.246 1.00 25.26	C
ATOM	559 O ARG A 264	50.286 6.280 34.778 1.00 24.99	0
ATOM	560 N GLN A 265	51.589 4.443 34.771 1.00 24.21	N
ATOM	562 CA GLN A 265	52.258 4.693 36.051 1.00 23.40	C
ATOM	564 CB GLN A 265		C
ATOM	567 CG GLN A 265		С
ATOM	570 CD GLN A 265		С
ATOM	571 OE1 GLN A 265	53.596 -0.090 36.619 1.00 29.26	Ο
ATOM	572 NE2 GLN A 265	54.994 1.360 35.578 1.00 27.55	N
ATOM	575 C GLN A 265	52.833 6.108 36.124 1.00 22.07	C
ATOM	576 O GLN A 265	52.866 6.716 37.193 1.00 22.21	0
ATOM	577 N GLN A 266	53.265 6.633 34.986 1.00 20.33	N
ATOM	579 CA GLN A 266	53.733 8.008 34.896 1.00 19.32	С
ATOM	581 CB GLN A 266		С
ATOM	584 CG GLN A 266		С
ATOM	587 CD GLN A 266	56.485 9.151 33.837 1.00 21.46	С
ATOM	588 OE1 GLN A 266	56.737 8.905 35.019 1.00 23.58	0
ATOM	589 NE2 GLN A 266	57.388 9.085 32.875 1.00 19.41	N
ATOM	592 C GLN A 266	52.638 9.016 35.225 1.00 18.20	С
ATOM	593 O GLN A 266	52.788 9.827 36.122 1.00 17.55	O
ATOM	594 N ARG A 267	51.557 8.972 34.460 1.00 16.94	N
ATOM		50.481 9.917 34.608 1.00 16.47	С
ATOM	598 CB ARG A 267	49.371 9.619 33.611 1.00 16.49	С
ATOM	601 CG ARG A 267	49.736 9.852 32.147 1.00 17.69	С
ATOM	604 CD ARG A 267	48.542 9.650 31.207 1.00 18.64	С
ATOM	607 NE ARG A 267	48.884 9.329 29.818 1.00 18.72	N
ATOM	609 CZ ARG A 267	49.280 8.128 29.373 1.00 18.73	С
ATOM	610 NH1 ARG A 267	49.447 7.094 30.196 1.00 18.38	N
ATOM	613 NH2 ARG A 267		N
ATOM	616 C ARG A 267	49.953 9.820 36.031 1.00 15.55	C
ATOM	617 O ARG A 267	49.721 10.824 36.677 1.00 15.03	Ö
ATOM	618 N PHE A 268	49.813 8.595 36.511 1.00 14.78	N
ATOM	620 CA PHE A 268	49.328 8.313 37.844 1.00 14.57	C
ATOM	622 CB PHE A 268	49.153 6.802 38.042 1.00 14.44	č
ATOM	625 CG PHE A 268	48.644 6.431 39.409 1.00 15.41	Č
ATOM	626 CD1 PHE A 268	47.333 6.735 39.781 1.00 16.17	C
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ATOM	628 CE1 PHE A 268	46.870 6.418 41.029 1.00 15.66	C
ATOM	630 CZ PHE A 268	47.701 5.803 41.943 1.00 15.46	C
<b>ATOM</b>	632 CE2 PHE A 268	49.006 5.517 41.614 1.00 16.39	C
<b>ATOM</b>	634 CD2 PHE A 268	49.481 5.827 40.342 1.00 15.83	С
ATOM	636 C PHE A 268	50.262 8.866 38.915 1.00 14.33	C
ATOM	637 O PHE A 268	49.802 9.415 39.901 1.00 14.80	Ο
<b>ATOM</b>	638 N ALA A 269	51.564 8.708 38.740 1.00 13.95	N
<b>ATOM</b>	640 CA ALA A 269	52.519 9.278 39.671 1.00 13.81	C
<b>ATOM</b>	642 CB ALA A 269	53.952 8.923 39.272 1.00 13.84	C
<b>ATOM</b>	646 C ALA A 269	52.337 10.784 39.692 1.00 13.92	C
<b>ATOM</b>	647 O ALA A 269	52.425 11.408 40.728 1.00 13.48	О
<b>ATOM</b>		2.065 11.353 38.531 1.00 14.53	N
<b>ATOM</b>		51.950 12.792 38.371 1.00 15.16	C
<b>ATOM</b>		51.847 13.132 36.863 1.00 15.31	С
<b>ATOM</b>	655 CG HIS A 270	51.558 14.568 36.586 1.00 16.76	С
<b>ATOM</b>		52.532 15.544 36.607 1.00 17.80	N
<b>ATOM</b>	658 CE1 HIS A 270	51.982 16.717 36.349 1.00 17.48	C
<b>ATOM</b>	660 NE2 HIS A 270	50.687 16.536 36.161 1.00 18.24	N
<b>ATOM</b>	662 CD2 HIS A 270	50.394 15.201 36.309 1.00 17.72	C
<b>ATOM</b>	•••	0.767 13.335 39.190 1.00 15.34	C
ATOM	665 O HIS A 270 5	0.933 14.279 39.933 1.00 15.27	О
<b>ATOM</b>	666 N PHE A 271	49.607 12.691 39.094 1.00 15.80	N
ATOM	668 CA PHE A 271	48.375 13.154 39.732 1.00 16.36	С
ATOM	670 CB PHE A 271	47.198 12.370 39.184 1.00 16.83	C
<b>ATOM</b>	673 CG PHE A 271	46.637 12.890 37.892 1.00 18.89	C
ATOM	674 CD1 PHE A 271	46.672 14.235 37.568 1.00 20.17	С
<b>ATOM</b>	676 CE1 PHE A 271	46.117 14.690 36.381 1.00 21.37	C
<b>ATOM</b>	678 CZ PHE A 271	45.499 13.811 35.518 1.00 21.87	C
<b>ATOM</b>	680 CE2 PHE A 271	45.452 12.465 35.832 1.00 21.99	С
<b>ATOM</b>	682 CD2 PHE A 271	46.018 12.011 37.012 1.00 21.37	С
<b>ATOM</b>	684 C PHE A 271	48.392 12.907 41.228 1.00 16.44	C
ATOM		47.848 13.665 42.007 1.00 16.74	Ο
<b>ATOM</b>	686 N THR A 272	48.979 11.786 41.604 1.00 16.45	N
<b>ATOM</b>	688 CA THR A 272	49.315 11.465 42.984 1.00 16.20	C
ATOM	690 CB THR A 272	50.091 10.095 42.987 1.00 16.35	C
ATOM	692 OG1 THR A 272	49.502 9.215 43.930 1.00 18.82	О
<b>ATOM</b>	694 CG2 THR A 272	51.555 10.205 43.424 1.00 17.10	C
ATOM		50.109 12.604 43.635 1.00 15.40	C
<b>ATOM</b>	= = = = = = = = = = = = = = = = = = = =	49.839 12.984 44.768 1.00 14.67	О
<b>ATOM</b>	700 N GLU A 273	51.073 13.165 42.903 1.00 15.13	N
<b>ATOM</b>	702 CA GLU A 273	51.881 14.272 43.421 1.00 14.90	C
ATOM	704 CB GLU A 273	53.159 14.412 42.607 1.00 15.52	C
ATOM	707 CG GLU A 273	54.132 13.250 42.861 1.00 16.25	С
ATOM	710 CD GLU A 273	55.249 13.169 41.859 1.00 17.92	С
ATOM	711 OE1 GLU A 273	55.767 14.231 41.459 1.00 20.84	О
ATOM	712 OE2 GLU A 273	55.652 12.039 41.496 1.00 21.55	О
ATOM		51.098 15.593 43.497 1.00 14.74	С
ATOM	714 O GLU A 273	51.260 16.344 44.447 1.00 14.46	0

ATOM	715 N LEU A 274	50.218 15.862 42.535 1.00 14.42	N
ATOM	717 CA LEU A 274		С
ATOM	719 CB LEU A 274	48.498 17.207 41.345 1.00 14.63	C
ATOM	722 CG LEU A 274	49.284 17.516 40.068 1.00 14.28	Č
ATOM	724 CD1 LEU A 274		C
ATOM	728 CD2 LEU A 274		č
	732 C LEU A 274	48.409 16.917 43.851 1.00 14.54	C.
ATOM			Ö
ATOM		47.983 15.693 44.149 1.00 13.96	N
ATOM	734 N ALA A 275	47.983 13.093 44.149 1.00 13.90	C
ATOM	736 CA ALA A 275	46.490 13.991 45.142 1.00 13.71	C
ATOM	738 CB ALA A 275		c
ATOM	742 C ALA A 275		
ATOM	743 O ALA A 275	47.163 16.055 47.552 1.00 13.39	0
ATOM	744 N ILE A 276	49.043 15.296 46.680 1.00 12.15	N
ATOM	746 CA ILE A 276	49.822 15.584 47.880 1.00 11.63	C
ATOM	748 CB ILE A 276	51.239 14.963 47.771 1.00 11.58	C
ATOM	750 CG1 ILE A 276	51.135 13.464 48.083 1.00 12.30	C
ATOM	753 CD1 ILE A 276	52.253 12.660 47.555 1.00 10.66	C
<b>ATOM</b>	757 CG2 ILE A 276	52.208 15.634 48.723 1.00 10.38	C
<b>ATOM</b>	761 C ILE A 276	49.937 17.077 48.118 1.00 11.95	C
<b>ATOM</b>	762 O ILE A 276	49.870 17.516 49.255 1.00 10.18	O
ATOM	763 N ILE A 277	50.176 17.841 47.047 1.00 13.10	N
ATOM	765 CA ILE A 277	50.234 19.300 47.133 1.00 13.53	С
ATOM	767 CB ILE A 277	50.340 19.980 45.751 1.00 13.51	C
ATOM	769 CG1 ILE A 277	51.642 19.656 45.007 1.00 14.87	С
ATOM	772 CD1 ILE A 277	52.851 19.778 45.806 1.00 16.04	С
ATOM	776 CG2 ILE A 277	50.176 21.496 45.919 1.00 14.18	C
ATOM	780 C ILE A 277	48.933 19.780 47.767 1.00 13.48	С
ATOM	781 O ILE A 277		0
ATOM	782 N SER A 278	47.807 19.310 47.246 1.00 13.36	N
ATOM	784 CA SER A 278		C
ATOM	786 CB SER A 278		Č
ATOM	789 OG SER A 278	44.147 18.996 47.666 1.00 17.27	Ö
ATOM	791 C SER A 278	46.319 19.312 49.227 1.00 13.88	C
ATOM	791 C SER A 278	45.755 20.055 50.011 1.00 14.45	0
	792 O SER A 278 793 N VAL A 279	46.808 18.136 49.594 1.00 13.99	N
ATOM	795 N VALA 279		C
ATOM	797 CB VAL A 279		C
ATOM	797 CB VAL A 279		C
ATOM			C
ATOM	803 CG2 VAL A 279		
ATOM	807 C VALA 279	47.398 18.692 51.874 1.00 15.98	C
ATOM	808 O VAL A 279	46.882 19.094 52.900 1.00 16.77	0
ATOM	809 N GLN A 280	48.576 19.131 51.464 1.00 16.73	N
ATOM	811 CA GLN A 280		C
ATOM	813 CB GLN A 280	50.696 20.330 51.561 1.00 17.11	C
ATOM	816 CG GLN A 280		C
ATOM	819 CD GLN A 280		C
ATOM	820 OE1 GLN A 280	52.691 21.886 50.276 1.00 20.62	0

ATOM	821 NE2 GLN A 280 5	3.968 21.885 52.126 1.00 17.93	N
ATOM	824 C GLN A 280 48.	.607 21.393 52.425 1.00 17.42	C
ATOM		.573 21.919 53.509 1.00 17.16	O
ATOM		.999 21.901 51.369 1.00 17.96	N
ATOM		7.150 23.077 51.490 1.00 19.38	С
ATOM		5.479 23.404 50.170 1.00 19.70	С
ATOM		7.420 23.843 49.093 1.00 22.42	C
ATOM		6.660 24.233 47.856 1.00 27.65	C
ATOM		6.934 23.643 46.792 1.00 30.06	0
ATOM		5.782 25.135 47.962 1.00 31.96	0
ATOM	839 C GLUA 281 46	.043 22.888 52.500 1.00 19.28	С
ATOM		.854 23.709 53.358 1.00 19.90	Ō
ATOM		307 21.796 52.390 1.00 19.77	N
ATOM	843 CA ILE A 282 44.	.146 21.576 53.245 1.00 19.42	C
ATOM		429 20.290 52.816 1.00 19.20	Č
ATOM		2.746 20.483 51.465 1.00 18.34	Ċ
ATOM		2.449 19.148 50.700 1.00 17.40	Č
ATOM		2.458 19.819 53.876 1.00 19.76	Č
ATOM		553 21.502 54.711 1.00 20.02	С
ATOM		376 22.077 55.575 1.00 19.86	Ö
		.636 20.775 54.990 1.00 20.45	N
ATOM		6.130 20.610 56.361 1.00 21.08	C
ATOM		7.408 19.701 56.449 1.00 20.75	C
ATOM		18.047 19.807 57.813 1.00 19.55	C
ATOM		17.070 18.227 56.137 1.00 13.33	C
ATOM	0,0 000 ,	.480 21.960 56.957 1.00 21.88	c
ATOM	•	.096 22.243 58.078 1.00 22.73	Ö
ATOM	• • • • • • • • • • • • • • • • • • • •	250 22.754 56.206 1.00 21.96	N
ATOM		7.655 24.103 56.577 1.00 22.32	C
ATOM			c
ATOM		3.577 24.698 55.479 1.00 22.91	C
ATOM		0.020 24.107 55.480 1.00 27.11	
ATOM		0.889 24.703 54.784 1.00 30.69	0
ATOM		0.395 23.067 56.106 1.00 31.70	0
ATOM		425 25.030 56.773 1.00 21.69	C
ATOM		.407 25.840 57.660 1.00 21.91	0
ATOM		.411 24.908 55.932 1.00 21.20	N
ATOM		4.184 25.687 56.068 1.00 21.41	C
ATOM		3.310 25.533 54.809 1.00 20.47	C
ATOM		1.915 26.101 54.959 1.00 20.10	C
ATOM		1.652 27.439 54.699 1.00 20.08	C
ATOM		0.362 27.961 54.842 1.00 18.61	C
ATOM	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	9.340 27.144 55.257 1.00 18.38	C
ATOM	•	9.597 25.818 55.542 1.00 20.39	C
ATOM		0.870 25.298 55.384 1.00 18.65	C
ATOM		.393 25.309 57.350 1.00 21.80	C
ATOM		.930 26.183 58.079 1.00 21.00	0
ATOM		.250 24.007 57.599 1.00 22.45	N
ATOM	910 CA ALA A 286 4	2.525 23.497 58.759 1.00 22.55	С

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42.534 22.013 58.751 1.00 21.84 C 912 CB ALA A 286 **ATOM** 43.087 24.021 60.086 1.00 23.89 C ATOM 916 C ALA A 286 917 O ALA A 286 42.329 24.439 60.940 1.00 23.39 0 ATOM 44.410 24.029 60.262 1.00 25.94 N 918 N LYS A 287 ATOM 45.015 24.533 61.513 1.00 27.03  $\mathbf{C}$ 920 CA LYS A 287 ATOM 46.507 24.197 61.565 1.00 28.33 C 922 CB LYS A 287 **ATOM** C 46.819 22.686 61.828 1.00 32.10 925 CG LYS A 287 ATOM 928 CD LYS A 287 46.778 22.320 63.378 1.00 35.99 C **ATOM** 47.553 20.974 63.752 1.00 37.37 C 931 CE LYS A 287 **ATOM** 46.837 19.675 63.380 1.00 36.79 N 934 NZ LYS A 287 ATOM 44.792 26.046 61.744 1.00 27.29 C 938 C LYS A 287 **ATOM** 45.130 26.584 62.816 1.00 28.49 0 939 O LYS A 287 **ATOM** 44.221 26.732 60.753 1.00 26.39 N 940 N GLN A 288 **ATOM** 43.874 28.147 60.863 1.00 25.65 C 942 CA GLN A 288 ATOM 44.391 28.877 59.638 1.00 25.37 C **ATOM** 944 CB GLN A 288 45.840 28.657 59.473 1.00 28.98 C 947 CG GLN A 288 **ATOM** 46.530 29.881 59.075 1.00 31.64 C 950 CD GLN A 288 ATOM 47.098 30.589 59.911 1.00 34.69 0 **ATOM** 951 OE1 GLN A 288 46,469 30.178 57.793 1.00 35.01 N **ATOM** 952 NE2 GLN A 288 42.373 28.388 60.978 1.00 24.59 C 955 C GLN A 288 ATOM 41.934 29.528 61.136 1.00 23.94 O 956 O GLN A 288 **ATOM** 41.588 27.329 60.840 1.00 23.23 N 957 N VALA 289 **ATOM** 40.164 27.437 61.071 1.00 22.95 959 CA VAL A 289 C ATOM C 39.438 26.211 60.571 1.00 22.40 961 CB VAL A 289 ATOM C **ATOM** 963 CG1 VAL A 289 37.983 26.292 60.952 1.00 23.31 967 CG2 VAL A 289 39.612 26.072 59.068 1.00 20.88 C ATOM C 39.978 27.592 62.575 1.00 22.64 ATOM 971 C VALA 289 972 O VALA 289 40.404 26.735 63.311 1.00 22.81 0 ATOM N 973 N PRO A 290 39.404 28.692 63.051 1.00 22.42 ATOM C 974 CA PRO A 290 39.137 28.825 64.494 1.00 22.62 ATOM 976 CB PRO A 290 38.396 30.150 64.589 1.00 22.56 C ATOM 38.922 30.917 63.436 1.00 23.19 C 979 CG PRO A 290 ATOM 982 CD PRO A 290 39.017 29.899 62.314 1.00 22.20 C ATOM 38.291 27.676 65.047 1.00 22.64 C **ATOM** 985 C PRO A 290 **ATOM** 986 O PRO A 290 37.255 27.358 64.468 1.00 22.25 0 38.751 27.065 66.134 1.00 22.94 N **ATOM** 987 N GLY A 291 38.121 25.879 66.683 1.00 23.65 C **ATOM** 989 CA GLY A 291 992 C GLY A 291 38.995 24.637 66.533 1.00 24.02  $\mathbf{C}$ ATOM 0 993 O GLY A 291 39.035 23.783 67.423 1.00 24.52 ATOM **ATOM** 994 N PHE A 292 39.719 24.534 65.426 1.00 23.97 N 996 CA PHE A 292 40.445 23.307 65.129 1.00 23.94 C ATOM 41.023 23.375 63.728 1.00 23.45 C 998 CB PHE A 292 ATOM ATOM 1001 CG PHE A 292 41.578 22.085 63.250 1.00 21.82 C 40.732 21.064 62.828 1.00 19.41 C ATOM 1002 CD1 PHE A 292 41.234 19.874 62.391 1.00 19.10  $\mathbf{C}$ ATOM 1004 CE1 PHE A 292 ATOM 1006 CZ PHE A 292 C 42.605 19.667 62.357 1.00 20.35 ATOM 1008 CE2 PHE A 292 43.461 20.666 62.779 1.00 21.11 C ATOM 1010 CD2 PHE A 292 42.941 21.880 63.218 1.00 20.01 C

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ATOM 1012 C PHE A 292 41.526 22.950 66.161 1.00 24.87 C 41.698 21.780 66.516 1.00 24.60 ATOM 1013 O PHE A 292 0 ATOM 1014 N LEU A 293 42.245 23.938 66.674 1.00 25.98 N ATOM 1016 CA LEU A 293 43.294 23.640 67.657 1.00 26.80 C 44.482 24.610 67.522 1.00 27.55 C ATOM 1018 CB LEU A 293 45.426 24.276 66.332 1.00 30.13 C ATOM 1021 CG LEU A 293 46.377 25.443 66.010 1.00 30.34 ATOM 1023 CD1 LEU A 293 C 46.245 22.995 66.565 1.00 31.46 ATOM 1027 CD2 LEU A 293  $\mathbf{C}$ 42.763 23.560 69.106 1.00 26.18 ATOM 1031 C LEU A 293 С ATOM 1032 O LEU A 293 43.478 23.152 70.001 1.00 25.92 0 ATOM 1033 N GLN A 294 41.502 23.911 69.319 1.00 25.95 N ATOM 1035 CA GLN A 294 40.815 23.613 70.588 1.00 25.70 C 39.466 24.344 70.673 1.00 25.93 ATOM 1037 CB GLN A 294 C ATOM 1040 CG GLN A 294 39.558 25.872 70.801 1.00 26.59 C 38.229 26.544 70.525 1.00 28.47 ATOM 1043 CD GLN A 294  $\mathbf{C}$ ATOM 1044 OE1 GLN A 294 38.162 27.566 69.818 1.00 30.90 0 37.161 25.974 71.068 1.00 30.91 ATOM 1045 NE2 GLN A 294 N ATOM 1048 C GLN A 294 40.548 22.111 70.764 1.00 25.05 C ATOM 1049 O GLN A 294 40.272 21.681 71.865 1.00 24.73 0 ATOM 1050 N LEU A 295 40.591 21.333 69.673 1.00 24.15 N ATOM 1052 CA LEU A 295 40.401 19.879 69.717 1.00 23.01 C ATOM 1054 CB LEU A 295 39.927 19.357 68.358 1.00 22.96 C ATOM 1057 CG LEU A 295 38.507 19.746 67.927 1.00 24.00 C ATOM 1059 CD1 LEU A 295 38.202 19.233 66.544 1.00 23.39  $\mathbf{C}$ 37.457 19.227 68.942 1.00 25.45 ATOM 1063 CD2 LEU A 295  $\mathbf{C}$ ATOM 1067 C LEU A 295 41.684 19.149 70.077 1.00 22.31 C ATOM 1068 O LEU A 295 42.779 19.625 69.776 1.00 21.89 0 ATOM 1069 N GLY A 296 41.540 17.980 70.708 1.00 21.41 N ATOM 1071 CA GLY A 296 42.663 17.104 70.977 1.00 20.64 C ATOM 1074 C GLY A 296 43.296 16.632 69.690 1.00 20.72 C ATOM 1075 O GLY A 296 42.643 16.616 68.628 1.00 20.45 0 ATOM 1076 N ARG A 297 44.564 16.256 69.767 1.00 20.79 N ATOM 1078 CA ARG A 297 45.304 15.833 68.585 1.00 21.83 C ATOM 1080 CB ARG A 297 46.768 15.477 68.923 1.00 22.29 C ATOM 1083 CG ARG A 297 47.742 15.855 67.793 1.00 26.10 C ATOM 1086 CD ARG A 297 49.251 15.569 68.055 1.00 31.77  $\mathbf{C}$ ATOM 1089 NE ARG A 297 49.943 15.212 66.805 1.00 35.40 N ATOM 1091 CZ ARG A 297 50.247 13.968 66.402 1.00 39.10 C ATOM 1092 NH1 ARG A 297 49.964 12.893 67.148 1.00 39.38 N ATOM 1095 NH2 ARG A 297 50.856 13.796 65.228 1.00 40.91 N ATOM 1098 C ARG A 297 44.607 14.665 67.881 1.00 21.67 C ATOM 1099 O ARG A 297 44.577 14.584 66.637 1.00 21.10 0 ATOM 1100 N GLU A 298 44.025 13.763 68.663 1.00 21.69 N ATOM 1102 CA GLU A 298 43.399 12.583 68.064 1.00 21.70 C ATOM 1104 CB GLU A 298 43.006 11.551 69.120 1.00 22.29 C ATOM 1107 CG GLU A 298 43.859 10.300 69.066 1.00 26.31 C ATOM 1110 CD GLU A 298 45.289 10.530 69.545 1.00 31.15 C ATOM 1111 OE1 GLU A 298 46.067 11.227 68.844 1.00 34.54

ATOM	1112	OE2 GLU A 298	45.642 10.001 70.624 1.00 33.78	· O
ATOM	1113	C GLU A 298	42.212 12.959 67.179 1.00 20.17	C
ATOM	1114	O GLU A 298	42.075 12.446 66.063 1.00 18.29	Ο
ATOM	1115	N ASP A 299	41.376 13.861 67.667 1.00 19.77	N
<b>ATOM</b>	1117	CA ASP A 299	40.245 14.346 66.869 1.00 20.44	C
ATOM	1119	CB ASP A 299	39.245 15.121 67.722 1.00 20.18	C
<b>ATOM</b>	1122	CG ASP A 299	38.439 14.204 68.619 1.00 21.95	C
ATOM	1123	OD1 ASP A 299	38.605 12.955 68.494 1.00 22.28	О
ATOM	1124	OD2 ASP A 299	37.647 14.629 69.493 1.00 24.19	Ο
<b>ATOM</b>	1125	C ASP A 299	40.675 15.174 65.677 1.00 20.59	C
<b>ATOM</b>	1126	O ASP A 299	40.052 15.092 64.635 1.00 21.48	O
ATOM	1127	N GLN A 300	41.753 15.936 65.826 1.00 20.59	N
<b>ATOM</b>	1129	CA GLN A 300	42.296 16.728 64.743 1.00 20.89	С
ATOM	1131	CB GLN A 300	43.520 17.505 65.209 1.00 20.98	С
ATOM	1134	CG GLN A 300	43.211 18.759 65.984 1.00 21.79	С
ATOM	1137	CD GLN A 300	44.471 19.457 66.511 1.00 24.15	С
<b>ATOM</b>	1138	<b>OE1 GLN A 300</b>	44.390 20.212 67.468 1.00 26.85	0
ATOM	1139	<b>NE2 GLN A 300</b>	45.623 19.205 65.889 1.00 23.70	N
ATOM	1142	C GLN A 300	42.686 15.836 63.587 1.00 20.82	C
ATOM	1143	O GLN A 300	42.343 16.119 62.439 1.00 21.20	0
ATOM	1144	N ILE A 301	43.395 14.753 63.910 1.00 20.32	N
ATOM	1146	CA ILE A 301	43.769 13.762 62.935 1.00 19.62	C
ATOM	1148	CB ILE A 301	44.767 12.748 63.539 1.00 20.10	C
ATOM	1150	CG1 ILE A 301	46.154 13.393 63.642 1.00 19.43	C
ATOM	1153	CD1 ILE A 301	47.094 12.652 64.553 1.00 20.19	C
ATOM	1157	CG2 ILE A 301	44.861 11.468 62.662 1.00 19.73	С
ATOM	1161	C ILE A 301	42.528 13.081 62.369 1.00 19.30	С
ATOM	1162	O ILE A 301	42.393 12.934 61.155 1.00 20.20	Ο
ATOM	1163	N ALA A 302	41.592 12.699 63.213 1.00 18.41	N
ATOM			40.423 11.988 62.705 1.00 17.85	С
ATOM	1167	CB ALA A 302	39.596 11.477 63.848 1.00 17.81	C
ATOM	1171	C ALA A 302	39.581 12.853 61.730 1.00 17.44	C
ATOM	1172	O ALA A 302	39.141 12.349 60.689 1.00 16.93	0
ATOM	1173	N LEU A 303	39.388 14.139 62.037 1.00 17.37	N
ATOM	1175	CA LEU A 303	38.604 15.043 61.173 1.00 17.82	C
ATOM	1177	CB LEU A 303	38.300 16.363 61.873 1.00 17.79	C
ATOM	1180	CG LEU A 303	37.480 16.301 63.158 1.00 18.21	С
ATOM	1182	CD1 LEU A 303	37.279 17.701 63.689 1.00 17.38	С
ATOM	1186	CD2 LEU A 303	36.154 15.590 62.942 1.00 19.92	С
ATOM	1190	C LEU A 303	39.301 15.371 59.849 1.00 18.27	С
ATOM	1191	O LEU A 303	38.660 15.510 58.837 1.00 17.83	0
ATOM	1192	N LEU A 304	40.621 15.498 59.873 1.00 19.62	N
ATOM	1194	CA LEU A 304	41.403 15.679 58.652 1.00 20.56	C
ATOM		CB LEU A 304	42.834 16.034 59.006 1.00 20.86	С
		CG LEU A 304	43.051 17.515 59.237 1.00 22.96	С
		CD1 LEU A 304	44.480 17.746 59.691 1.00 24.33	C
		CD2 LEU A 304	42.745 18.325 57.974 1.00 25.50	C
ATOM	1209	C LEU A 304	41.412 14.443 57.758 1.00 20.17	C

ATOM	1210	O LEU A 304	41.271 14.540 56.560 1.00 20.16	О
ATOM	1211	N LYS A 305	41.571 13.279 58.352 1.00 20.84	N
ATOM	1213	CA LYS A 305		С
<b>ATOM</b>	1215	CB LYS A 305	41.650 10.840 58.571 1.00 22.15	С
<b>ATOM</b>	1218	CG LYS A 305	42.794 9.817 58.317 1.00 23.68	C
ATOM	1221	CD LYS A 305	43.955 10.024 59.284 1.00 25.40	С
ATOM	1224	CE LYS A 305	45.192 9.197 58.921 1.00 25.14	C
ATOM	1227	NZ LYS A 305	45.648 8.320 60.048 1.00 25.27	N
ATOM	1231	C LYS A 305	40.274 11.964 56.779 1.00 21.35	C
ATOM	1232	O LYS A 305	40.280 11.754 55.545 1.00 21.00	Ο
ATOM	1233	N ALA A 306	39.156 12.190 57.456 1.00 20.89	N
ATOM	1235	CA ALA A 306	37.855 12.083 56.798 1.00 20.64	C
ATOM	1237	<b>CB ALA A 306</b>	36.760 11.955 57.841 1.00 20.73	С
ATOM	1241	C ALA A 306	37.569 13.242 55.838 1.00 20.23	С
ATOM	1242	O ALA A 306		Ο
		N SER A 307		N
ATOM			37.675 15.630 55.391 1.00 19.91	С
ATOM		CB SER A 307		C
ATOM			36.768 17.182 56.937 1.00 25.77	Ο
ATOM	1252			С
ATOM	1253			О
ATOM		N THR A 308		N
ATOM		CA THR A 308		С
ATOM		CB THR A 308		C
ATOM			3 42.680 15.539 54.440 1.00 15.82	C
ATOM			42.886 15.176 52.174 1.00 17.07	C
ATOM		C THR A 308		C
ATOM	1267			О
ATOM		N ILE A 309		N
ATOM		CA ILE A 309		C
		CB ILE A 309		С
		CG1 ILE A 309	38.542 11.879 48.541 1.00 18.77	С
		CD1 ILE A 309		C
		CG2 ILE A 309		C
ATOM		C ILE A 309	37.972 14.686 49.730 1.00 18.04	C
	1286		37.879 15.150 48.598 1.00 17.64	0
ATOM	1287			N
		CA GLU A 310	35.921 15.803 50.440 1.00 19.49	C
		CB GLU A 310	34.990 15.776 51.659 1.00 19.25	C
		CG GLU A 310	34.449 14.367 51.869 1.00 21.65	C
		CD GLU A 310	33.388 14.236 52.957 1.00 22.47	C
		OE1 GLU A 310		O
ATOM		OE2 GLU A 310		O
ATOM		C GLU A 310	36.289 17.244 50.070 1.00 19.19	C
ATOM	1301		35.742 17.808 49.125 1.00 20.59	0
ATOM		N ILE A 311	37.238 17.825 50.790 1.00 18.33	N
		CA ILE A 311	37.696 19.178 50.504 1.00 17.23	C
ATOM	1306	CB ILE A 311	38.582 19.669 51.637 1.00 16.82	С

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ATOM 1308 CG1 ILE A 311 37.772 19.715 52.952 1.00 16.30 C 38.615 19.946 54.200 1.00 16.45 ATOM 1311 CD1 ILE A 311 C 39.139 21.050 51.306 1.00 17.62 ATOM 1315 CG2 ILE A 311 C ATOM 1319 C ILE A 311 38.413 19.219 49.139 1.00 16.48 C ATOM 1320 O ILE A 311 38.248 20.152 48.370 1.00 16.19 0 ATOM 1321 N MET A 312 39.145 18.166 48.830 1.00 16.06 N ATOM 1323 CA MET A 312 39.837 18.042 47.574 1.00 16.26 ATOM 1325 CB MET A 312 40.615 16.729 47.479 1.00 16.63 41.881 16.692 48.231 1.00 19.96 ATOM 1328 CG MET A 312 C ATOM 1331 SD MET A 312 42.969 15.273 47.818 1.00 24.73 S ATOM 1332 CE MET A 312 43.078 15.386 46.128 1.00 17.57 C ATOM 1336 C MET A 312 38.854 18.049 46.453 1.00 15.49 C ATOM 1337 O MET A 312 39.137 18.627 45.440 1.00 14.65 0 ATOM 1338 N LEU A 313 37.727 17.356 46.620 1.00 15.38 N ATOM 1340 CA LEU A 313 36.708 17.309 45.585 1.00 15.44 C ATOM 1342 CB LEU A 313 35.601 16.308 45.907 1.00 15.59 C ATOM 1345 CG LEU A 313 36.025 14.853 45.774 1.00 15.79 C ATOM 1347 CD1 LEU A 313 35.081 13.994 46.579 1.00 17.22 C ATOM 1351 CD2 LEU A 313 36.041 14.422 44.322 1.00 15.14 C ATOM 1355 C LEU A 313 36.111 18.680 45.424 1.00 15.72 C ATOM 1356 O LEU A 313 35.863 19.124 44.298 1.00 16.03 0 ATOM 1357 N LEU A 314 35.880 19.357 46.538 1.00 15.98 N ATOM 1359 CA LEU A 314 35.398 20.745 46.485 1.00 16.72 C ATOM 1361 CB LEU A 314 35.214 21.285 47.902 1.00 16.68  $\mathbf{C}$ ATOM 1364 CG LEU A 314 33.861 21.706 48.451 1.00 19.36 C ATOM 1366 CD1 LEU A 314 32.691 21.290 47.581 1.00 19.73 C ATOM 1370 CD2 LEU A 314 33.653 21.229 49.917 1.00 19.76 C ATOM 1374 C LEU A 314 36.374 21.630 45.704 1.00 17.15 C ATOM 1375 O LEU A 314 35.960 22.385 44.832 1.00 16.98 0 ATOM 1376 N GLU A 315 37.675 21.513 46,002 1.00 17.91 N ATOM 1378 CA GLU A 315 38.718 22.322 45.340 1.00 18.50 C ATOM 1380 CB GLU A 315 40.090 22.136 46.037 1.00 18.99 C ATOM 1383 CG GLU A 315 40.261 22.870 47.368 1.00 22.30 C ATOM 1386 CD GLU A 315 39.999 24.370 47.260 1.00 28.75 C ATOM 1387 OE1 GLU A 315 40.882 25.092 46.747 1.00 33.76 0 ATOM 1388 OE2 GLU A 315 38.883 24.824 47.645 1.00 33.52 0 ATOM 1389 C GLU A 315 38.824 21.969 43.846 1.00 17.84 C ATOM 1390 O GLU A 315 39.072 22.830 42.978 1.00 17.24 0 ATOM 1391 N THR A 316 38.600 20.701 43.546 1.00 16.95 N ATOM 1393 CA THR A 316 38.612 20.246 42.182 1.00 16.70 C ATOM 1395 CB THR A 316 38.583 18.732 42.152 1.00 16.75 C ATOM 1397 OG1 THR A 316 39.785 18.226 42.744 1.00 13.92 0 ATOM 1399 CG2 THR A 316 38.547 18.187 40.683 1.00 14.98 C 37.418 20.824 41.428 1.00 18.11 ATOM 1403 C THR A 316 C ATOM 1404 O THR A 316 37.558 21.228 40.289 1.00 18.69 0 ATOM 1405 N ALA A 317 36.248 20.882 42.059 1.00 19.67 N ATOM 1407 CA ALA A 317 35.057 21.445 41.406 1.00 20.76  $\mathbf{C}$ ATOM 1409 CB ALA A 317 33.859 21.314 42.294 1.00 20.68

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	35.284 22.908 41.038 1.00 21.54	С
ATOM 1414 O ALA A 317	34.913 23.349 39.943 1.00 22.69	О
ATOM 1415 N ARG A 318		N
	36.313 25.033 41.796 1.00 22.80	C
ATOM 1419 CB ARG A 318	37.094 25.465 43.038 1.00 23.87	C
ATOM 1422 CG ARG A 318	36.573 26.602 43.856 1.00 27.49	С
ATOM 1425 CD ARG A 318		С
ATOM 1428 NE ARG A 318	37.035 27.843 45.987 1.00 39.43	N
ATOM 1430 CZ ARG A 318	37.516 29.056 45.772 1.00 42.41	C
ATOM 1431 NH1 ARG A 318	38.325 29.293 44.736 1.00 44.52	N
ATOM 1434 NH2 ARG A 318	37.180 30.043 46.599 1.00 43.04	N
	37.230 25.307 40.615 1.00 21.79	C
ATOM 1438 O ARG A 318	37.245 26.411 40.086 1.00 21.76	O
ATOM 1439 N ARG A 319	38.044 24.317 40.259 1.00 20.98	N
	39.023 24.421 39.171 1.00 20.20	С
ATOM 1443 CB ARG A 319	40.313 23.710 39.568 1.00 20.14	С
	41.082 24.401 40.647 1.00 20.81	С
	42.014 23.486 41.412 1.00 23.29	C
ATOM 1452 NE ARG A 319		
ATOM 1454 CZ ARG A 319		С
	41.265 24.659 43.852 1.00 28.73	N
	43.371 25.490 44.155 1.00 29.94	N
ATOM 1461 C ARG A 319		С
ATOM 1462 O ARG A 319		0
	37.283 23.387 37.835 1.00 19.44	N
	36.613 22.945 36.616 1.00 19.71	C.
	35.365 22.116 36.956 1.00 19.39	C
	34.596 21.588 35.769 1.00 18.73	Č
	35.123 20.608 34.962 1.00 19.98	C
	34.416 20.112 33.868 1.00 20.60	Č
ATOM 1475 CZ TYR A 320		C
	32.486 20.107 32.487 1.00 20.85	Ö
	32.611 21.578 34.370 1.00 19.65	Č
	33.328 22.063 35.463 1.00 19.36	Ċ
ATOM 1482 C TYR A 320		C
ATOM 1483 O TYR A 320		Ö
	36.613 24.115 34.501 1.00 21.61	N
ATOM 1486 CA ASN A 321		C
	37.409 25.484 32.663 1.00 23.12	č
	37.143 26.698 31.800 1.00 22.84	Č
	37.647 27.782 32.069 1.00 24.62	Ō
	36.348 26.524 30.771 1.00 20.92	N
ATOM 1496 C ASN A 321	35.096 24.525 32.697 1.00 23.60	c
ATOM 1497 O ASN A 321	35.313 23.608 31.918 1.00 23.48	Ö
ATOM 1498 N HIS A 322	33.895 25.053 32.892 1.00 25.23	N
ATOM 1500 CA HIS A 322	32.693 24.646 32.156 1.00 26.51	Ĉ
	31.492 25.513 32.633 1.00 27.27	Č
ATOM 1505 CG HIS A 322	30.275 25.424 31.762 1.00 29.99	Č
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ATOM	1506 ND1 HIS A 322	29.601 24.240 31.535 1.00 32.54	N
ATOM	1508 CE1 HIS A 322	28.586 24.463 30.713 1.00 34.07	C
ATOM	1510 NE2 HIS A 322	28.571 25.750 30.404 1.00 34.11	N
ATOM	1512 CD2 HIS A 322	29.611 26.376 31.058 1.00 33.10	С
ATOM		32.891 24.711 30.633 1.00 26.52	С
ATOM		32.418 23.833 29.900 1.00 26.62	0
ATOM	1516 N GLU A 323	33.617 25.722 30.158 1.00 26.77	N
ATOM	1518 CA GLU A 323		C
	1520 CB GLU A 323	34.133 27.448 28.469 1.00 27.10	Č
ATOM	1523 CG GLU A 323	33.148 28.221 27.591 1.00 28.96	C
ATOM	1526 CD GLU A 323	32.215 29.128 28.383 1.00 30.50	C
ATOM		32.234 29.079 29.638 1.00 30.87	o
ATOM			o
ATOM	1528 OE2 GLU A 323		c
ATOM	1529 C GLU A 323	34.735 25.057 27.963 1.00 26.84	
ATOM	1530 O GLU A 323	34.592 24.847 26.761 1.00 26.37	0
ATOM	1531 N THR A 324	35.739 24.534 28.670 1.00 26.82	N
		36.721 23.609 28.099 1.00 26.57	C
	1535 CB THR A 324	38.190 24.074 28.416 1.00 26.67	C
ATOM	1537 OG1 THR A 324	38.467 24.031 29.833 1.00 25.10	0
ATOM		38.416 25.538 28.015 1.00 26.34	C
ATOM	1543 C THR A 324	36.507 22.164 28.583 1.00 26.77	C
ATOM	1544 O THR A 324	37.143 21.254 28.075 1.00 26.83	O
ATOM	1545 N GLU A 325	35.598 21.962 29.538 1.00 26.97	N
ATOM	1547 CA GLU A 325	35.375 20.663 30.204 1.00 27.23	C
<b>ATOM</b>	1549 CB GLU A 325	34.689 19.675 29.234 1.00 27.47	C
<b>ATOM</b>	1552 CG GLU A 325	33.233 19.344 29.587 1.00 28.20	С
<b>ATOM</b>	1555 CD GLU A 325	32.398 18.812 28.408 1.00 29.54	С
<b>ATOM</b>	1556 OEI GLU A 325	32.727 19.079 27.222 1.00 29.64	О
<b>ATOM</b>	1557 OE2 GLU A 325	31.383 18.126 28.668 1.00 29.96	O
ATOM	1558 C GLU A 325	36.669 20.077 30.829 1.00 27.23	С
ATOM	1559 O GLU A 325	36.837 18.854 30.934 1.00 27.55	O
ATOM	1560 N CYS A 326	37.563 20.971 31.256 1.00 26.85	N
ATOM	1562 CA CYS A 326	38.877 20.606 31.795 1.00 26.31	С
ATOM	1564 CB CYS A 326	39.991 21.098 30.864 1.00 26.31	С
ATOM	1567 SG CYS A 326	40.201 20.150 29.337 1.00 27.85	S
	1568 C CYS A 326	39.095 21.213 33.180 1.00 25.45	C
	1569 O CYS A 326	38.497 22.234 33.523 1.00 25.10	Ō
ATOM		39.979 20.577 33.947 1.00 24.73	N
ATOM	1572 CA ILE A 327	40.265 20.934 35.332 1.00 24.35	C
ATOM	1574 CB ILE A 327	40.046 19.699 36.227 1.00 24.35	Č
-	1576 CG1 ILE A 327	38.560 19.368 36.321 1.00 24.03	C
	1579 CD1 ILE A 327	38.310 18.010 36.913 1.00 25.32	Č
ATOM	1583 CG2 ILE A 327	40.634 19.908 37.604 1.00 23.73	Č
ATOM		41.711 21.398 35.429 1.00 24.23	С
ATOM		42.596 20.722 34.925 1.00 23.97	0
	1589 N THR A 328	41.945 22.521 36.108 1.00 24.35	N
ATOM		43.262 23.135 36.176 1.00 24.56	
ATOM			C
ATOM	1593 CB THR A 328	43.221 24.573 35.612 1.00 24.72	C

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42.759 24.549 34.254 1.00 24.62 ATOM 1595 OG1 THR A 328 0  $\mathbf{C}$ 44.638 25.177 35.492 1.00 24.73 ATOM 1597 CG2 THR A 328 43.827 23.146 37.601 1.00 25.13 C ATOM 1601 C THR A 328 ATOM 1602 O THR A 328 43.288 23.805 38.511 1.00 24.81 0 44.932 22.421 37.773 1.00 25.28 ATOM 1603 N PHE A 329 N C ATOM 1605 CA PHE A 329 45.690 22.429 39.013 1.00 25.63 ATOM 1607 CB PHE A 329 46.168 21.003 39.303 1.00 25.28 C C ATOM 1610 CG PHE A 329 45.058 19.981 39.249 1.00 23.41 45.075 18.960 38.309 1.00 21.30 C ATOM 1611 CD1 PHE A 329 44.050 18.042 38.242 1.00 20.33 C ATOM 1613 CE1 PHE A 329 C 42.978 18.125 39.127 1.00 20.10 ATOM 1615 CZ PHE A 329 42.943 19.139 40.075 1.00 21.64 C ATOM 1617 CE2 PHE A 329 C ATOM 1619 CD2 PHE A 329 43.976 20.068 40.128 1.00 21.59 46.859 23.413 38.923 1.00 27.08 ATOM 1621 C PHE A 329 C 47.514 23.529 37.879 1.00 27.03 ATOM 1622 O PHE A 329 O 47.086 24.162 39.999 1.00 28.88 N ATOM 1623 N LEU A 330 48.317 24.959 40.168 1.00 30.33 C ATOM 1625 CA LEU A 330 49.543 24.024 40.284 1.00 30.46 C ATOM 1627 CB LEU A 330 49.540 22.997 41.419 1.00 30.49  $\mathbf{C}$ ATOM 1630 CG LEU A 330 50.613 21.962 41.199 1.00 31.98 C ATOM 1632 CD1 LEU A 330 49.751 23.668 42.752 1.00 30.65 C ATOM 1636 CD2 LEU A 330 ATOM 1640 C LEU A 330 48.575 25.998 39.062 1.00 31.29 C ATOM 1641 O LEU A 330 49.695 26.113 38.556 1.00 31.45 0 47.547 26.748 38.682 1.00 32.74 N ATOM 1642 N LYS A 331 47.668 27.785 37.632 1.00 33.73 C ATOM 1644 CA LYS A 331 48.877 28.735 37.855 1.00 34.21  $\mathbf{C}$ ATOM 1646 CB LYS A 331 49.110 29.269 39.284 1.00 35.79 C ATOM 1649 CG LYS A 331 49.871 30.635 39.289 1.00 37.37 C ATOM 1652 CD LYS A 331 49.066 31.744 40.025 1.00 38.72  $\mathbf{C}$ ATOM 1655 CE LYS A 331 N 49.126 33.069 39.324 1.00 38.94 ATOM 1658 NZ LYS A 331 ATOM 1662 C LYS A 331 47.805 27.247 36.211 1.00 33.94 C 47.389 27.907 35.269 1.00 34.65 0 ATOM 1663 O LYS A 331 48.401 26.070 36.047 1.00 34.28 ATOM 1664 N ASP A 332 49.005 25.697 34.772 1.00 34.16  $\mathbf{C}$ ATOM 1666 CA ASP A 332 ATOM 1668 CB ASP A 332 50.527 25.843 34.872 1.00 34.39  $\mathbf{C}$  $\mathbf{C}$ ATOM 1671 CG ASP A 332 51.040 27.045 34.125 1.00 34.51 50.978 27.038 32.876 1.00 34.87 0 ATOM 1672 OD1 ASP A 332 51.504 28.047 34.708 1.00 35.55 ATOM 1673 OD2 ASP A 332 О ATOM 1674 C ASP A 332 48.700 24.301 34.268 1.00 33.94 ATOM 1675 O ASP A 332 48.561 24.108 33.060 1.00 34.65 O ATOM 1676 N PHE A 333 48.677 23.323 35.166 1.00 33.39 N 48.485 21.929 34.775 1.00 32.85 ATOM 1678 CA PHE A 333 C C 49.024 20.986 35.863 1.00 32.98 ATOM 1680 CB PHE A 333 C ATOM 1683 CG PHE A 333 50.520 21.059 36.031 1.00 33.52 51.087 21.780 37.072 1.00 33.91 C ATOM 1684 CD1 PHE A 333 ATOM 1686 CE1 PHE A 333 C 52.471 21.862 37.213 1.00 33.43 C ATOM 1688 CZ PHE A 333 53.286 21.229 36.318 1.00 33.89 ATOM 1690 CE2 PHE A 333 52.735 20.521 35.261 1.00 34.47

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ATOM	1692 CD2 PHE A 333	51.358 20.440 35.121 1.00 34.19	C
ATOM	1694 C PHE A 333		C
ATOM	1695 O PHE A 333	46.222 21.708 35.410 1.00 31.94	Ο
ATOM	1696 N THR A 334	46.688 21.383 33.245 1.00 31.20	N
<b>ATOM</b>	1698 CA THR A 334	45.300 21.254 32.796 1.00 30.75	С
<b>ATOM</b>	1700 CB THR A 334	45.014 22.318 31.727 1.00 30.62	С
ATOM	1702 OG1 THR A 334	45.207 23.613 32.303 1.00 30.79	О
ATOM	1704 CG2 THR A 334		С
ATOM	1708 C. THR A 334	45.023 19.864 32.242 1.00 30.23	С
ATOM	1709 O THR A 334	45.861 19.304 31.551 1.00 30.23	О
	1710 N TYR A 335	43.842 19.320 32.544 1.00 29.92	N
	1712 CA TYR A 335		С
	1714 CB TYR A 335	43.867 16.986 33.366 1.00 29.47	C
	1717 CG TYR A 335	45.325 17.092 33.729 1.00 29.58	С
ATOM	1718 CD1 TYR A 335	45,737 17.850 34.823 1.00 29.29	С
ATOM		47.079 17.973 35.134 1.00 29.82	C
ATOM	1722 CZ TYR A 335		C
ATOM	1723 OH TYR A 335		Ō
ATOM		47.640 16.635 33.219 1.00 29.71	C
	1727 CD2 TYR A 335	46.302 16.508 32.922 1.00 29.36	C
	1729 C TYR A 335	42.030 17.762 31.864 1.00 29.38	$\mathbf{C}^{-}$
ATOM	1730 O TYR A 335	41.177 18.458 32.405 1.00 29.15	Ö
ATOM	1731 N SER A 336	41.745 16.813 30.976 1.00 29.15	N
ATOM	1733 CA SER A 336	40.384 16.524 30.541 1.00 28.85	C
	1735 CH SER A 336	40.307 16.527 29.021 1.00 28.49	Č
	1738 OG SER A 336	41.107 15.491 28.485 1.00 27.98	Ö
	1740 C SER A 336	39.981 15.163 31.063 1.00 28.83	C
	1740 C SER A 336	40.824 14.420 31.552 1.00 28.78	ŏ
	1742 N LYS A 337	38.695 14.839 30.934 1.00 28.88	N
	1742 K E16 H 337	38.168 13.519 31.298 1.00 28.86	C
ATOM	1744 CA L13 A 337	36.742 13.336 30.764 1.00 28.93	Č
ATOM	1740 CB LYS A 337	35.739 12.823 31.796 1.00 30.85	Č
	1749 CO LTS A 337		Č
	1752 CD LTS A 337	33.456 13.529 30.806 1.00 33.98	Ċ
	1758 NZ LYS A 337	32.125 13.458 31.537 1.00 35.47	N
	1762 C LYS A 337		c
	1763 O LYS A 337	39.286 11.404 31.492 1.00 28.62	ŏ
	1764 N ASP A 338	39.537 12.524 29.536 1.00 28.16	N
	1766 CA ASP A 338	40.370 11.496 28.921 1.00 27.94	C
	1768 CB ASP A 338	40.661 11.800 27.435 1.00 28.12	C
	1771 CG ASP A 338	39.498 11.428 26.502 1.00 28.23	C
		38.407 11.062 26.993 1.00 28.81	o
	1772 OD1 ASI A 338	39.585 11.489 25.256 1.00 27.66	ŏ
	1774 C ASP A 338	41.679 11.352 29.690 1.00 27.53	c
	1774 C ASP A 338	42.093 10.237 30.009 1.00 27.27	Ö
		42.324 12.478 29.990 1.00 26.98	N
	1778 CA ASP A 339	43.580 12.449 30.743 1.00 26.51	C
		44.098 13.864 31.040 1.00 26.35	C
AIOM	1760 CD ASE A 339	T070 13.004 31.040 1.00 20.33	C

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ATOM 1783 CG ASP A 339 44.531 14.617 29.784 1.00 26.67 C 45.108 14.010 28.844 1.00 27.93 0 ATOM 1784 OD1 ASP A 339 ATOM 1785 OD2 ASP A 339 44.339 15.837 29.650 1.00 26.18 0 C ATOM 1786 C ASP A 339 43.463 11.634 32.040 1.00 26.10 ATOM 1787 O ASP A 339 44.391 10.906 32.392 1.00 26.08 0 ATOM 1788 N PHE A 340 42.328 11.725 32.732 1.00 25.51 N C ATOM 1790 CA PHE A 340 42.149 10.965 33.964 1.00 25.32 C 40.967 11.492 34.795 1.00 24.90 ATOM 1792 CB PHE A 340 C ATOM 1795 CG PHE A 340 41.175 12.888 35.305 1.00 22.96 C ATOM 1796 CD1 PHE A 340 40.553 13.966 34.697 1.00 22.02  $\mathbf{C}$ ATOM 1798 CE1 PHE A 340 40.758 15.257 35.153 1.00 22.03 C 41.598 15.487 36.229 1.00 20.58 ATOM 1800 CZ PHE A 340 42.226 14.421 36.839 1.00 20.74  $\mathbf{C}$ ATOM 1802 CE2 PHE A 340 C 42.016 13.128 36.371 1.00 21.10 ATOM 1804 CD2 PHE A 340 ATOM 1806 C PHE A 340 42.022 9.466 33.682 1.00 25.66 C 42.466 8.650 34.483 1.00 25.91 ATOM 1807 O PHE A 340 0 41.435 9.106 32.550 1.00 26.18 ATOM 1808 N HIS A 341 N  $\mathbf{C}$ ATOM 1810 CA HIS A 341 41.343 7.700 32.148 1.00 26.87 C ATOM 1812 CB HIS A 341 40.295 7.513 31.045 1.00 27.05 C ATOM 1815 CG HIS A 341 39.884 6.085 30.849 1.00 28.71 39.126 5.394 31.771 1.00 29.94 N ATOM 1816 ND1 HIS A 341 ATOM 1818 CE1 HIS A 341 38.922 4.162 31.335 1.00 31.00 C ATOM 1820 NE2 HIS A 341 39.523 4.027 30.165 1.00 30.91 N ATOM 1822 CD2 HIS A 341 40.134 5.215 29.838 1.00 30.45 C ATOM 1824 C HIS A 341 42.684 7.113 31.685 1.00 26.76 C ATOM 1825 O HIS A 341 42.984 5.947 31.954 1.00 26.77 0 ATOM 1826 N ARG A 342 43.486 7.925 31.003 1.00 26.70 N ATOM 1828 CA ARG A 342 44.794 7.493 30.513 1.00 26.94 C 45.382 8.543 29.558 1.00 26.90 C ATOM 1830 CB ARG A 342 C ATOM 1833 CG ARG A 342 44.664 8.622 28.210 1.00 28.19 C ATOM 1836 CD ARG A 342 45.229 9.672 27.226 1.00 29.91 N 44.476 10.935 27.264 1.00 31.33 ATOM 1839 NE ARG A 342 44.632 11.955 26.412 1.00 31.59  $\mathbf{C}$ ATOM 1841 CZ ARG A 342 45.525 11.902 25.427 1.00 31.20 N ATOM 1842 NH1 ARG A 342 43.886 13.049 26.554 1.00 31.62 ATOM 1845 NH2 ARG A 342 N 45.778 7.202 31.656 1.00 26.76 C ATOM 1848 C ARG A 342 46.798 6.566 31.423 1.00 26.70 0 ATOM 1849 O ARG A 342 45.470 7.675 32.872 1.00 26.62 N ATOM 1850 N ALA A 343 46.280 7.431 34.079 1.00 26.39 C ATOM 1852 CA ALA A 343 ATOM 1854 CB ALA A 343 46.349 8.695 34.939 1.00 26.48 C 45.776 6.249 34.924 1.00 26.40 C ATOM 1858 C ALA A 343 46.353 5.932 35.966 1.00 26.25 0 ATOM 1859 O ALA A 343 44.691 5.620 34.481 1.00 26.50 N ATOM 1860 N GLY A 344 C ATOM 1862 CA GLY A 344 44.267 4.332 35.001 1.00 26.55 ATOM 1865 C GLY A 344 43.280 4.423 36.136 1.00 26.67 C 43.183 3.504 36.951 1.00 27.06 ATOM 1866 O GLY A 344 0 ATOM 1867 N LEU A 345 42.551 5.530 36.197 1.00 26.53 N C ATOM 1869 CA LEU A 345 41.463 5.667 37.153 1.00 26.53

<b>ATOM</b>	1871 CB LEU A 345	41.267 7.149 37.516 1.00 26.53	С
<b>ATOM</b>	1874 CG LEU A 345	42.518 7.858 38.072 1.00 24.62	C
<b>ATOM</b>	1876 CD1 LEU A 345	42.305 9.352 38.144 1.00 24.46	С
<b>ATOM</b>	1880 CD2 LEU A 345	42.897 7.335 39.436 1.00 23.50	С
<b>ATOM</b>	1884 C LEU A 345	40.181 5.026 36.586 1.00 26.63	С
<b>ATOM</b>	1885 O LEU A 345	39.898 5.147 35.395 1.00 26.63	О
<b>ATOM</b>	1886 N GLN A 346	39.454 4.294 37.434 1.00 26.91	N
ATOM	1888 CA GLN A 346	38.105 3.792 37.127 1.00 26.83	С
ATOM	1890 CB GLN A 346	37.339 3.473 38.426 1.00 27.27	С
ATOM	1893 CG GLN A 346	37.770 2.240 39.251 1.00 28.32	С
ATOM	1896 CD GLN A 346	36.835 1.986 40.479 1.00 29.29	С
ATOM		36.459 0.842 40.753 1.00 31.84	Ο
ATOM	1898 NE2 GLN A 346	36.460 3.046 41.182 1.00 27.17	N
	1901 C GLN A 346	37.288 4.867 36.416 1.00 26.31	С
ATOM	1902 O GLN A 346	37.438 6.055 36.704 1.00 26.77	0
ATOM	1903 N VAL A 347	36.389 4.454 35.536 1.00 25.81	N
ATOM	1905 CA VAL A 347	35.368 5.358 34.976 1.00 25.38	С
ATOM	1907 CB VAL A 347	34.753 4.766 33.669 1.00 25.51	С
ATOM		33.790 5.742 32.998 1.00 25.31	С
ATOM		35.874 4.396 32.704 1.00 25.57	С
ATOM	1917 C VAL A 347	34,304 5.642 36.057 1.00 24.93	C
ATOM		33.792 6.757 36.161 1.00 23.88	0
ATOM	1919 N GLU A 348	34.045 4.636 36.898 1.00 24.60	N
ATOM	1921 CA GLU A 348	33.146 4.756 38.063 1.00 24.72	С
ATOM		33.019 3.390 38.770 1.00 24.91	C
ATOM		32.539 2.243 37.885 1.00 26.71	Ċ
ATOM		33.685 1.488 37.206 1.00 29.71	Č
ATOM		33.582 1.233 35.991 1.00 31.00	Ö
ATOM			Ö
ATOM		33.583 5.808 39.107 1.00 23.86	C
ATOM	1932 C GLU A 348	32.829 6.137 40.029 1.00 23.87	Ö
ATOM	1934 N PHE A 349	34.816 6.285 38.974 1.00 23.14	N
ATOM		35.403 7.307 39.840 1.00 22.80	C
ATOM		36.854 6.903 40.134 1.00 23.01	č
	1941 CG PHE A 349	37.583 7.793 41.085 1.00 22.39	č
	1942 CD1 PHE A 349	37.088 8.050 42.350 1.00 22.17	Č
	1944 CE1 PHE A 349	37.780 8.853 43.218 1.00 20.60	Č
	1946 CZ PHE A 349	39.013 9.375 42.856 1.00 21.91	Č
	1948 CE2 PHE A 349	39.533 9.127 41.614 1.00 22.28	C
	1950 CD2 PHE A 349	38.818 8.336 40.726 1.00 23.79	Č
ATOM		35.371 8.639 39.116 1.00 22.30	c
ATOM		34.953 9.628 39.669 1.00 21.90	O
ATOM		35.796 8.635 37.857 1.00 22.24	N
•		35.895 9.848 37.060 1.00 22.04	C
ATOM ATOM		36.575 9.537 35.722 1.00 21.70	C
ATOM		38.079 9.313 35.922 1.00 21.70	C
	1963 CD1 ILE A 350	38.756 8.515 34.775 1.00 21.47	C
ATOM		36.332 10.663 34.718 1.00 21.28	C
ATOM	1907 CG2 ILE A 330	30.332 10.003 34.718 1.00 21.28	C

ATOM	1971	C ILE A 350	34.558 10.515 36.782 1.00 22.33	C
<b>ATOM</b>	1972	O ILE A 350	34.434 11.731 36.887 1.00 22.59	O
ATOM	1973	N ASN A 351	33.572 9.732 36.358 1.00 22.84	N
ATOM	1975	CA ASN A 351	32.302 10.302 35.907 1.00 22.42	С
ATOM	1977	CB ASN A 351	31.433 9.243 35.211 1.00 22.60	С
ATOM	1980	CG ASN A 351	31.905 8.937 33.789 1.00 23.53	С
ATOM			32.687 9.687 33.203 1.00 25.37	O
ATOM		ND2 ASN A 351		N
ATOM		C ASN A 351		С
ATOM		O ASN A 351		0
ATOM			31.464 10.388 38.228 1.00 21.48	N
ATOM			30.887 11.074 39.397 1.00 20.83	С
ATOM			30.914 10.006 40.491 1.00 20.76	Č
ATOM			30.930 8.732 39.765 1.00 21.63	Ċ
ATOM			31.813 8.990 38.550 1.00 21.39	Č
ATOM			31.645 12.322 39.856 1.00 20.50	Č
			30.977 13.206 40.375 1.00 19.87	Ö
		N ILE A 353		N
ATOM	2001	CA ILE A 353	33.689 13.627 40.076 1.00 19.92	C
ATOM			35.236 13.428 40.135 1.00 19.61	č
ATOM			35.686 12.406 41.190 1.00 20.31	C
			34.657 11.997 42.210 1.00 22.76	č
ATOM	2010	CG2 ILE A 353	35.906 14.762 40.367 1.00 19.04	Č
ATOM			33.379 14.758 39.099 1.00 19.71	C
ATOM			33.261 15.903 39.505 1.00 19.66	Ö
ATOM			33.280 14.435 37.812 1.00 19.64	N
			32.886 15.431 36.785 1.00 19.92	C
ATOM			33.175 14.938 35.370 1.00 19.71	Ċ
ATOM			34.513 15.328 34.876 1.00 20.80	C
ATOM			35.625 14.553 35.182 1.00 23.54	C
ATOM			36.896 14.919 34.739 1.00 24.39	С
			37.056 16.066 33.983 1.00 24.23	C
ATOM		CE2 PHE A 354		С
ATOM		CD2 PHE A 354		С
ATOM		C PHE A 354	31.424 15.884 36.877 1.00 19.67	C
		O PHE A 354	31.126 17.052 36.613 1.00 19.35	O
ATOM		N GLU A 355	30.541 14.976 37.286 1.00 19.54	N
ATOM		CA GLU A 355	29.141 15.314 37.550 1.00 19.97	C
ATOM		CB GLU A 355	28.337 14.053 37.852 1.00 20.00	C
ATOM		CG GLU A 355	27.688 13.441 36.635 1.00 22.53	C
		CD GLU A 355	27.848 11.929 36.543 1.00 26.22	C
		OE1 GLU A 355	27.853 11.411 35.386 1.00 26.82	O
ATOM		OE2 GLU A 355	27.946 11.267 37.610 1.00 27.50	Ö
ATOM		C GLU A 355	29.036 16.284 38.734 1.00 19.93	C
ATOM	2054		28.311 17.264 38.684 1.00 19.80	Ö
ATOM		N PHE A 356	29.794 16.011 39.785 1.00 19.56	N
ATOM		CA PHE A 356	29.799 16.853 40.966 1.00 19.66	C
ATOM		CB PHE A 356	30.591 16.167 42.081 1.00 19.44	C
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ATOM	2062 CG PHE	A 356 30.659 16.955 43.348 1.00 20.9	91 C
<b>ATOM</b>	2063 CD1 PHE	A 356 29.577 16.978 44.223 1.00 20.	43 C
<b>ATOM</b>	2065 CE1 PHE	A 356 29.647 17.694 45.404 1.00 19.	47 C
<b>ATOM</b>	2067 CZ PHE	A 356 30.809 18.396 45.720 1.00 18.7	'4 C
ATOM	2069 CE2 PHE	A 356 31.881 18.384 44.855 1.00 19.	01 C
<b>ATOM</b>	2071 CD2 PHE	A 356 31.811 17.672 43.678 1.00 19.	31 C
<b>ATOM</b>	2073 C PHE A	356 30.373 18.223 40.625 1.00 19.40	) C
ATOM	2074 O PHE A	356 29.825 19.225 40.990 1.00 18.25	8 O
ATOM	2075 N SER A	357 31.457 18.249 39.870 1.00 20.60	) N
<b>ATOM</b>	2077 CA SER	A 357 32.128 19.499 39.503 1.00 20.5	59 C
<b>ATOM</b>	2079 CB SER	A 357 33.338 19.227 38.602 1.00 20.2	29 C
<b>ATOM</b>	2082 OG SER	A 357 34.369 18.580 39.329 1.00 20.0	)2 O
ATOM	2084 C SER A	357 31.194 20.445 38.806 1.00 20.65	5 C
ATOM	2085 O SER A	357 31.099 21.606 39.160 1.00 21.93	2 O
ATOM	2086 N ARG	A 358 30.488 19.958 37.815 1.00 21.0	0 N
<b>ATOM</b>	2088 CA ARG	A 358 29.605 20.841 37.041 1.00 21.	25 C
ATOM	2090 CB ARG	A 358 29.238 20.203 35.708 1.00 21.	20 C
<b>ATOM</b>	2093 CG ARG	A 358 28.561 18.881 35.802 1.00 22.	25 C
ATOM	2096 CD ARG	A 358 28.071 18.403 34.441 1.00 23.	15 C
ATOM	2099 NE ARG	A 358 29.192 17.895 33.667 1.00 23.	60 N
<b>ATOM</b>	2101 CZ ARG	A 358 29.508 16.607 33.533 1.00 26.	50 C
<b>ATOM</b>	2102 NH1 ARC	A 358 28.770 15.650 34.106 1.00 26	.64 N
ATOM	2105 NH2 ARC	A 358 30.558 16.272 32.783 1.00 28	.29 N
ATOM	2108 C ARG A	A 358 28.361 21.285 37.816 1.00 21.1	9 C
ATOM	2109 O ARG	A 358 27.888 22.421 37.655 1.00 20.9	
ATOM	2110 N ALA A	x 359 27.845 20.399 38.664 1.00 21.3	0 N
ATOM	2112 CA ALA	A 359 26.770 20.738 39.595 1.00 21.	67 C
ATOM	2114 CB ALA	A 359 26.329 19.479 40.375 1.00 21.	76 C
<b>ATOM</b>	2118 C ALA A	359 27.213 21.831 40.576 1.00 22.1	8 C
<b>ATOM</b>	2119 O ALA A	359 26.457 22.711 40.925 1.00 21.7	7 O
ATOM	2120 N MET A	A 360 28.457 21.767 41.001 1.00 23.0	1 N
<b>ATOM</b>	2122 CA MET	A 360 29.009 22.748 41.919 1.00 24.	64 C
<b>ATOM</b>	2124 CB MET	A 360 30.361 22.254 42.446 1.00 24.	59 C
ATOM	2127 CG MET	A 360 30.641 22.625 43.881 1.00 27.	53 C
ATOM	2130 SD MET	A 360 29.338 22.222 45.065 1.00 26.3	30 S
ATOM	2131 CE MET	A 360 29.857 20.934 45.508 1.00 30.	19 C
ATOM	2135 C MET A	A 360 29.148 24.121 41.258 1.00 25.1	9 C
ATOM	2136 O MET A	A 360 28.926 25.162 41.894 1.00 25.7	4 O
ATOM	2137 N ARG	A 361 29.480 24.126 39.972 1.00 25.8	4 N
ATOM	2139 CA ARG	A 361 29.584 25.371 39.224 1.00 26.	35 C
	2141 CB ARG		12 C
	2144 CG ARG		89 C
	2147 CD ARG		97 C
	2150 NE ARG		46 N
	2152 CZ ARG		
	2153 NH1 ARC		
	2156 NH2 ARC		
	2159 C ARG A		1 C

ATOM	2160 O ARG A 361	28.179 27.284 38.839 1.00 26.26	Ο
ATOM	2161 N ARG A 362	27.159 25.276 38.939 1.00 25.48	N
ATOM	2163 CA ARG A 362	25.834 25.863 38.729 1.00 25.07	С
ATOM	2165 CB ARG A 362	24.771 24.804 38.378 1.00 25.05	С
ATOM	2168 CG ARG A 362	24.727 24.487 36.901 1.00 26.61	C
ATOM	2171 CD ARG A 362	23.614 23.522 36.494 1.00 30.55	C
ATOM	2174 NE ARG A 362	24.090 22.127 36.484 1.00 33.30	N
ATOM	2176 CZ ARG A 362	23.737 21.173 37.352 1.00 33.74	C
ATOM	2177 NH1 ARG A 362	22.882 21.411 38.352 1.00 34.38	N
ATOM	2180 NH2 ARG A 362	24.258 19.964 37.220 1.00 33.96	N
ATOM	2183 C ARG A 362	25.467 26.641 39.971 1.00 24.29	С
ATOM	2184 O ARG A 362	24.923 27.726 39.888 1.00 24.82	Ο
ATOM	2185 N LEU A 363	25.813 26.093 41.126 1.00 24.09	N
ATOM	2187 CA LEU A 363	25.515 26.735 42.390 1.00 23.70	C
ATOM	2189 CB LEU A 363	25.927 25.841 43.562 1.00 24.14	C
ATOM	2192 CG LEU A 363	24.872 25.174 44.445 1.00 25.78	С
ATOM	2194 CD1 LEU A 363	25.540 24.801 45.755 1.00 26.68	С
ATOM	2198 CD2 LEU A 363	23.653 26.039 44.721 1.00 26.04	C
ATOM	2202 C LEU A 363	26.223 28.081 42.502 1.00 22.89	C
ATOM	2203 O LEU A 363	25.760 28.946 43.218 1.00 22.75	Ο
ATOM	2204 N GLY A 364	27.355 28.251 41.826 1.00 22.35	N
ATOM	2206 CA GLY A 364	28.092 29.509 41.865 1.00 21.60	C
ATOM	2209 C GLY A 364	28.424 30.050 43.262 1.00 20.93	С
ATOM	2210 O GLY A 364	28.151 31.187 43.573 1.00 20.48	O
ATOM	2211 N LEU A 365	29.015 29.239 44.112 1.00 20.65	N
ATOM	2213 CA LEU A 365	29.409 29.712 45.439 1.00 20.77	С
ATOM	2215 CB LEU A 365	29.970 28.563 46.257 1.00 20.89	С
ATOM	2218 CG LEU A 365	29.053 27.368 46.534 1.00 21.09	C
ATOM	2220 CD1 LEU A 365	29.655 26.540 47.624 1.00 23.59	C
ATOM	2224 CD2 LEU A 365	27.722 27.838 46.955 1.00 23.26	С
ATOM	2228 C LEU A 365	30.449 30.830 45.348 1.00 20.31	C
ATOM	2229 O LEU A 365	31.290 30.801 44.466 1.00 20.83	O
ATOM	2230 N ASP A 366	30.390 31.819 46.241 1.00 19.34	N
ATOM	2232 CA ASP A 366	31.450 32.813 46.304 1.00 18.83	С
	2234 CB ASP A 366	30.904 34.235 46.543 1.00 18.87	C
	2237 CG ASP A 366	30.328 34.442 47.922 1.00 19.79	С
	2238 OD1 ASP A 366	30.648 33.664 48.849 1.00 22.64	0
	2239 OD2 ASP A 366	29.547 35.383 48.175 1.00 18.75	О
	2240 C ASP A 366	32.511 32.369 47.311 1.00 18.05	C
	2241 O ASP A 366	32.373 31.318 47.902 1.00 17.47	0
	2242 N ASP A 367	33.577 33.145 47.458 1.00 18.22	N
	2244 CA ASP A 367	34.732 32.766 48.286 1.00 18.77	С
	2246 CB ASP A 367	35.792 33.879 48.276 1.00 19.56	C
	2249 CG ASP A 367	36.570 33.986 46.950 1.00 21.86	C
	2250 OD1 ASP A 367	36.252 33.299 45.969 1.00 26.50	O
	2251 OD2 ASP A 367	37.556 34.750 46.808 1.00 29.03	O
	2252 C ASP A 367	34.328 32.482 49.740 1.00 18.55	С
	2253 O ASP A 367	34.810 31.527 50.340 1.00 18.77	Ο

ATOM	2254 N ALA A 368	33.436 33.304 50.291 1.00 17.60	N
ATOM	2256 CA ALA A 368	32.965 33.127 51.656 1.00 17.92	C
ATOM	2258 CB ALA A 368	32.127 34.347 52.106 1.00 17.88	С
ATOM	2262 C ALA A 368	32.145 31.847 51.823 1.00 17.92	С
ATOM	2263 O ALA A 368	32.291 31.149 52.819 1.00 17.06	Ο
ATOM	2264 N GLU A 369	31.273 31.572 50.848 1.00 17.90	N
ATOM	2266 CA GLU A 369	30.428 30.393 50.849 1.00 17.89	С
ATOM	2268 CB GLU A 369	29.392 30.448 49.719 1.00 17.89	C
ATOM	2271 CG GLU A 369	28.197 31.315 50.072 1.00 17.84	C
ATOM	2274 CD GLU A 369	27.368 31.747 48.887 1.00 17.92	Č
ATOM	2275 OE1 GLU A 369	26.183 32.053 49.081 1.00 19.99	0
ATOM		27.877 31.780 47.764 1.00 16.22	Ö
ATOM	2277 C GLU A 369	31.273 29.120 50.784 1.00 17.98	C
ATOM	2277 C GLU A 369	31.062 28.239 51.611 1.00 18.41	Ö
ATOM	2279 N TYR A 370	32.237 29.043 49.860 1.00 17.69	N
	2281 CA TYR A 370		C
ATOM	2281 CA TTRA 370 2283 CB TYR A 370	34.263 28.083 48.713 1.00 19.44	Č
ATOM		33.924 27.365 47.453 1.00 23.14	C
ATOM			C
ATOM	2287 CD1 TYR A 370	33.109 27.405 45.129 1.00 31.46	C
ATOM	2289 CE1 TYR A 370		C
ATOM	2291 CZ TYR A 370		0
ATOM	2292 OH TYR A 370		C
ATOM	2294 CE2 TYR A 370	33.619 25.317 46.197 1.00 29.61	
ATOM	2296 CD2 TYR A 370		C
ATOM	2298 C TYR A 370	33.898 27.711 51.121 1.00 18.02	C
ATOM	2299 O TYR A 370		0
ATOM	2300 N ALA A 371	34.570 28.759 51.604 1.00 17.46	N
ATOM	2302 CA ALA A 371	35.332 28.705 52.860 1.00 17.72	C
ATOM	2304 CB ALA A 371	35.915 30.075 53.187 1.00 17.37	C
ATOM		34.483 28.192 54.030 1.00 17.86	C
ATOM		34.867 27.264 54.744 1.00 17.61	O
ATOM		33.300 28.770 54.184 1.00 18.15	N
ATOM		32.379 28.367 55.235 1.00 18.10	C
ATOM	2314 CB LEU A 372	31.168 29.301 55.288 1.00 18.44	C
ATOM	2317 CG LEU A 372	31.388 30.655 55.966 1.00 17.97	С
<b>ATOM</b>	2319 CD1 LEU A 372	30.261 31.616 55.581 1.00 18.92	С
ATOM		31.503 30.529 57.490 1.00 17.39	С
ATOM	2327 C LEU A 372	31.915 26.919 55.066 1.00 18.84	С
ATOM	2328 O LEU A 372	31.794 26.203 56.054 1.00 18.91	Ο
ATOM	2329 N LEU A 373	31.675 26.473 53.839 1.00 19.14	N
ATOM	2331 CA LEU A 373	31.293 25.074 53.601 1.00 19.70	C
	2333 CB LEU A 373	31.049 24.809 52.126 1.00 19.70	C
	2336 CG LEU A 373	29.782 24.100 51.665 1.00 21.26	C
ATOM		30.074 23.402 50.324 1.00 22.41	C
	2342 CD2 LEU A 373	29.130 23.141 52.650 1.00 20.53	C
ATOM		32.383 24.129 54.043 1.00 20.13	С
ATOM		32.129 23.098 54.647 1.00 20.93	О
	2348 N ILE A 374	33.614 24.476 53.736 1.00 20.60	N

ATOM	2350 CA ILE A 374	34.753 23.657 54.113 1.00 20.44	С
		36.018 24.226 53.480 1.00 20.73	C
		36.007 23.898 51.988 1.00 20.20	С
ATOM		37.030 24.646 51.130 1.00 20.32	С
ATOM		37.272 23.623 54.158 1.00 23.14	С
ATOM		34.890 23.516 55.626 1.00 20.57	С
ATOM		35.044 22.411 56.116 1.00 22.25	Ο
ATOM	2367 N ALA A 375	34.835 24.615 56.374 1.00 20.16	N
		34.859 24.573 57.829 1.00 19.27	С
		34.780 25.972 58.370 1.00 19.60	C
		33.705 23.743 58.391 1.00 19.34	C
ATOM	2376 O ALA A 375	33.849 23.045 59.387 1.00 19.63	Ο
ATOM	2377 N ILE A 376	32.540 23.828 57.767 1.00 19.42	N
ATOM	2379 CA ILE A 376	31.390 23.066 58.227 1.00 18.80	C
ATOM	2381 CB ILE A 376	30.092 23.502 57.515 1.00 17.92	С
ATOM		29.576 24.820 58.079 1.00 17.49	. C
		28.585 25.567 57.139 1.00 16.73	C
ATOM	2390 CG2 ILE A 376		С
ATOM		31.683 21.603 57.971 1.00 19.50	C
ATOM		31.306 20.773 58.774 1.00 20.11	O
ATOM	2396 N ASN A 377	32.336 21.294 56.847 1.00 20.52	N
ATOM	2398 CA ASN A 377	32.680 19.915 56.469 1.00 20.93	С
ATOM	2400 CB ASN A 377	33.307 19.872 55.085 1.00 21.62	C
ATOM		33.690 18.453 54.641 1.00 22.72	С
		32.979 17.837 53.867 1.00 22.99	C
		34.812 17.947 55.141 1.00 20.87	N
ATOM			С
ATOM	2409 O ASN A 377	33.517 18.205 57.869 1.00 21.98	Ο
ATOM	2410 N ILE A 378	34.672 20.121 57.783 1.00 21.41	N
ATOM	2412 CA ILE A 378	35.681 19.716 58.758 1.00 21.93	С
ATOM	2414 CB ILE A 378	36.697 20.853 58.960 1.00 21.86	C
ATOM		37.633 20.936 57.757 1.00 21.82	С
		38.474 22.216 57.746 1.00 23.11	C
	2423 CG2 ILE A 378		С
ATOM	2427 C ILE A 378	35.086 19.287 60.094 1.00 21.90	C
		35.470 18.250 60.642 1.00 22.53	O
	2429 N PHE A 379	34.168 20.086 60.630 1.00 21.90	N
	2431 CA PHE A 379	33.632 19.825 61.970 1.00 21.69	C
ATOM		33.313 21.140 62.711 1.00 21.31	С
ATOM		34.536 21.991 62.992 1.00 21.12	C
	2437 CD1 PHE A 379	34.639 23.276 62.499 1.00 21.16	С
	2439 CE1 PHE A 379	35.771 24.028 62.745 1.00 21.97	C
	2441 CZ PHE A 379	36.806 23.504 63.484 1.00 21.44	С
	2443 CE2 PHE A 379	36.715 22.241 63.981 1.00 19.78	C
	2445 CD2 PHE A 379	35.587 21.490 63.733 1.00 21.14	C
	2447 C PHE A 379	32.398 18.934 61.907 1.00 21.30	C
ATOM		31.353 19.317 62.396 1.00 21.90	0
ATOM	2449 N SER A 380	32.517 17.758 61.310 1.00 20.97	N

ATOM	2451 CA SER A 380	31.407 16.796 61.282 1.00 21.44	C
		31.307 16.061 59.944 1.00 21.03	C
ATOM		31.393 16.992 58.889 1.00 23.07	0
ATOM	2458 C SER A 380	31.656 15.814 62.382 1.00 21.42	С
	2459 O SER A 380	32.626 15.075 62.340 1.00 21.37	О
	2460 N ALA A 381	30.781 15.804 63.376 1.00 22.21	N
	2462 CA ALA A 381	31.019 15.021 64.579 1.00 22.72	С
		30.066 15.461 65.667 1.00 23.12	С
		30.879 13.518 64.339 1.00 23.30	С
		31.284 12.728 65.200 1.00 24.29	Ο
	2470 N ASP A 382	30.309 13.117 63.195 1.00 23.11	N
		30.071 11.692 62.904 1.00 23.18	C
	2474 CB ASP A 382		С
	2477 CG ASP A 382		C
	2478 OD1 ASP A 382	29.572 12.946 60.478 1.00 24.08	О
	2479 OD2 ASP A 382	27.781 11.837 60.010 1.00 29.55	O
	2480 C ASP A 382	31.180 10.986 62.111 1.00 23.20	C
	2481 O ASP A 382	30.988 9.859 61.646 1.00 23.89	O
		32.347 11.628 61.974 1.00 22.57	N
		33.500 11.008 61.312 1.00 21.50	С
ATOM		34.667 11.995 61.218 1.00 21.27	C
	2489 CG ARG A 383		C
	2492 CD ARG A 383		С
	2495 NE ARG A 383	33.970 14.264 58.250 1.00 21.75	N
	2497 CZ ARG A 383		С
		33.204 13.131 56.393 1.00 19.43	N
		33.781 15.343 56.222 1.00 23.34	N
	2504 C ARG A 383	33.936 9.810 62.129 1.00 21.13	С
	2505 O ARG A 383	33.719 9.770 63.334 1.00 21.47	O
ATOM	2506 N PRO A 384	34.564 8.834 61.502 1.00 20.88	N
ATOM		35.176 7.721 62.241 1.00 21.10	С
		35.890 6.914 61.146 1.00 21.32	С
		35.280 7.338 59.855 1.00 21.47	С
	2515 CD PRO A 384		С
ATOM	2518 C PRO A 384	36.222 8.149 63.278 1.00 21.38	С
ATOM	2519 O PRO A 384	37.054 9.026 63.002 1.00 21.60	O
	2520 N ASN A 385	36.188 7.513 64.445 1.00 21.55	N
ATOM	2522 CA ASN A 385	37.226 7.665 65.488 1.00 21.22	С
_	2524 CB ASN A 385	38.619 7.375 64.905 1.00 21.33	С
	2527 CG ASN A 385	38.708 5.977 64.310 1.00 20.84	C
	2528 OD1 ASN A 385	38.458 5.013 65.008 1.00 22.86	Ο
	2529 ND2 ASN A 385	39.017 5.867 63.026 1.00 17.53	N
	2532 C ASN A 385	37.233 8.991 66.253 1.00 20.97	С
-	2533 O ASN A 385	38.190 9.282 66.922 1.00 20.77	O
ATOM	2534 N VAL A 386	36.158 9.774 66.177 1.00 20.83	N
ATOM		36.042 10.996 66.964 1.00 20.53	C
	2538 CB VAL A 386	35.027 11.967 66.340 1.00 20.29	C
	2540 CG1 VAL A 386		C

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ATOM	2544 CG2 VAL A 386	35.552 12.486 64.983 1.00 20.31	С
ATOM	2548 C VAL A 386	35.673 10.695 68.430 1.00 20.67	С
ATOM	2549 O VAL A 386	34.735 9.950 68.720 1.00 20.08	О
ATOM	2550 N GLN A 387	36.410 11.309 69.344 1.00 20.66	N
ATOM	2552 CA GLN A 387	36.303 11.018 70.771 1.00 21.25	С
ATOM	2554 CB GLN A 387	37.668 11.084 71.458 1.00 21.61	C
ATOM	2557 CG GLN A 387	38.837 10.601 70.615 1.00 23.93	C
ATOM	2560 CD GLN A 387	39.596 9.483 71.255 1.00 25.34	C
ATOM	2561 OEI GLN A 387	38.994 8.517 71.705 1.00 29.43	О
ATOM	2562 NE2 GLN A 387	40.924 9.598 71.292 1.00 27.17	N
ATOM	2565 C GLN A 387	35.391 12.007 71.455 1.00 20.57	С
ATOM	2566 O GLN A 387	34.745 11.659 72.413 1.00 20.97	О
ATOM	2567 N GLU A 388	35.335 13.227 70.945 1.00 20.17	N
ATOM	2569 CA GLU A 388	34.566 14.301 71.551 1.00 20.02	С
ATOM	2571 CB GLU A 388	35.526 15.372 72.037 1.00 20.38	C
ATOM	2574 CG GLU A 388	36.601 14.797 72.937 1.00 21.88	C
ATOM	2577 CD GLU A 388	37.233 15.860 73.794 1.00 24.28	C
ATOM	2578 OE1 GLU A 388	37.975 16.680 73.239 1.00 27.15	О
ATOM	2579 OE2 GLU A 388	36.976 15.885 75.008 1.00 25.68	O
ATOM	2580 C GLU A 388	33.591 14.868 70.532 1.00 19.21	C
ATOM	2581 O GLU A 388	33.710 16.011 70.126 1.00 18.78	О
ATOM	2582 N PRO A 389	32.632 14.056 70.107 1.00 19.33	N
ATOM	2583 CA PRO A 389	31.691 14.477 69.063 1.00 19.55	C
ATOM	2585 CB PRO A 389	30.836 13.208 68.812 1.00 20.13	С
ATOM	2588 CG PRO A 389	30.992 12.348 70.066 1.00 19.37	С
ATOM	2591 CD PRO A 389	32.374 12.668 70.564 1.00 19.24	C
<b>ATOM</b>	2594 C PRO A 389	30.838 15.675 69.482 1.00 19.37	C
ATOM	2595 O PRO A 389	30.576 16.559 68.644 1.00 19.74	O
<b>ATOM</b>	2596 N GLY A 390	30.420 15.718 70.742 1.00 19.03	N
<b>ATOM</b>	2598 CA GLY A 390	29.702 16.866 71.267 1.00 18.88	C
<b>ATOM</b>	2601 C GLY A 390	30.465 18.182 71.091 1.00 19.43	С
ATOM	2602 O GLY A 390	29.873 19.229 70.755 1.00 19.60	О
ATOM	2603 N ARG A 391	31.770 18.158 71.346 1.00 19.20	N
<b>ATOM</b>	2605 CA ARG A 391	32.605 19.344 71.106 1.00 19.79	C
ATOM	2607 CB ARG A 391	33.995 19.139 71.680 1.00 20.00	C
<b>ATOM</b>	2610 CG ARG A 391	33.984 18.973 73.171 1.00 23.73	C
<b>ATOM</b>	2613 CD ARG A 391	35.374 18.976 73.748 1.00 28.60	C
ATOM	2616 NE ARG A 391	36.026 20.260 73.495 1.00 31.62	N
ATOM	2618 CZ ARG A 391	37.335 20.439 73.329 1.00 33.77	C
	2619 NH1 ARG A 391	38.191 19.412 73.360 1.00 33.29	N
	2622 NH2 ARG A 391	37.788 21.673 73.139 1.00 34.43	N
	2625 C ARG A 391	32.737 19.725 69.632 1.00 19.01	С
	2626 O ARG A 391	32.721 20.900 69.304 1.00 18.13	О
ATOM		32.890 18.725 68.757 1.00 19.26	N
ATOM		33.046 18.963 67.328 1.00 19.48	C
ATOM	2631 CB VAL A 392	33.342 17.673 66.560 1.00 19.79	C
ATOM		33.239 17.903 65.035 1.00 19.28	C
	2637 CG2 VAL A 392		C

ATOM 2642 O VALA 392 ATOM 2643 N GLUA 393 ATOM 2645 CA GLUA 393 ATOM 2645 CA GLUA 393 ATOM 2646 CG GLUA 393 ATOM 2650 CG GLUA 393 ATOM 2650 CG GLUA 393 ATOM 2655 OE2 GLUA 393 ATOM 2656 C ALAA 394 ATOM 2660 CA BLEUA 395 ATOM 2670 CA LEUA 395 ATOM 2670 CDI LEUA 395 ATOM 2670 CB LEUA 395 ATOM 2670 CB LEUA 395 ATOM 2670 CDI LEUA 395 ATOM 2670 CB LEUA 395 ATOM 2670 CG LEUA 395 ATOM 2670 CB LEUA 396 ATOM 2670 CB CL A 396 ATOM 2670 CB GLN A 396 ATOM 2670 CB GLN A 396 ATOM 2670 CB GLN A 396 ATOM 2690 NE2 GLN A 396 ATOM 2690 NE2 GLN A 396 ATOM 2702 C GLN A 396 ATOM 2702 C GLN A 396 ATOM 2704 N GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2707 CB GB CN A 397 ATOM 2708 CB GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 CG GLN A 397 ATOM 2712 CG DRN A 397 ATOM 2721 CG DRN A 397 ATOM 2721 CG PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2727 CG PRO A 398				
ATOM 2644 O VAL A 392 ATOM 2643 N GLU A 393 ATOM 2645 CA GLU A 393 ATOM 2645 CA GLU A 393 ATOM 2646 CB GLU A 393 ATOM 2650 CG GLU A 393 ATOM 2655 CD GLU A 393 ATOM 2655 OE2 GLU A 393 ATOM 2655 OE2 GLU A 393 ATOM 2656 C GLU A 393 ATOM 2656 C GLU A 393 ATOM 2656 C GLU A 393 ATOM 2657 O GLU A 393 ATOM 2656 C ALA A 394 ATOM 2660 CA ALA A 394 ATOM 2661 OE1 CLU A 395 ATOM 2660 C ALA A 394 ATOM 2661 CD LEU A 395 ATOM 2660 C ALA A 394 ATOM 2660 C ALA A 394 ATOM 2660 C BLU A 395 ATOM 2670 C A LEU A 395 ATOM 2670 C BLEU A 395 ATOM 2680 O LEU A 395 ATOM 2680 O LEU A 396 ATOM 2680 C BLO A 396 ATOM 2690 NE2 GLN A 396 ATOM 2690 NE2 GLN A 396 ATOM 2690 NE2 GLN A 396 ATOM 2704 N GLN A 397 ATOM 2704 C GLN A 397 ATOM 2705 C GLN A 397 ATOM 2706 C A GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2710 C GLN A 397 ATOM 2721 C PRO A 398 ATOM 2722 C A PRO A 398 ATOM 2722 C A PRO A 398 ATOM 2730 C D PRO A 398	ATOM	2641 C VAL A 392	31.777 19.603 66.769 1.00 19.62	С
ATOM 2645 CA GLU A 393 ATOM 2646 CA GLU A 393 ATOM 2650 CG GLU A 393 ATOM 2650 CG GLU A 393 ATOM 2653 CD GLU A 393 ATOM 2655 OE2 GLU A 393 ATOM 2655 OE2 GLU A 393 ATOM 2656 C GLU A 393 ATOM 2656 C GLU A 393 ATOM 2657 O GLU A 393 ATOM 2658 N ALA A 394 ATOM 2658 C GLU A 393 ATOM 2658 C GLU A 393 ATOM 2656 C GLU A 393 ATOM 2657 O GLU A 393 ATOM 2658 N ALA A 394 ATOM 2658 N ALA A 394 ATOM 2666 C ALA A 394 ATOM 2667 O ALA A 394 ATOM 2668 N LEU A 395 ATOM 2670 CA LEU A 395 ATOM 2670 CA LEU A 395 ATOM 2671 CDI LEU A 395 ATOM 2672 CB LEU A 395 ATOM 2687 N GLN A 396 ATOM 2689 CA GLN A 396 ATOM 2689 CA GLN A 396 ATOM 2694 CG GLN A 396 ATOM 2697 CD GLN A 396 ATOM 2698 OEI GLN A 396 ATOM 2698 OEI GLN A 396 ATOM 2703 O GLN A 396 ATOM 2704 N GLN A 397 ATOM 2704 N GLN A 397 ATOM 2705 CG LON A 397 ATOM 2706 CA GLN A 397 ATOM 2707 CD GLN A 396 ATOM 2708 CB GLN A 397 ATOM 2708 CB GLN A 397 ATOM 2709 C GLN A 397 ATOM 2701 C GLN A 397 ATOM 2701 C GLN A 397 ATOM 2702 C GLN A 397 ATOM 2703 C GLN A 397 ATOM 2704 N GLN A 397 ATOM 2705 C GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2707 CD LN A 397 ATOM 2708 CB GLN A 397 ATOM 2708 CB GLN A 397 ATOM 2709 C GLN A 397 ATOM 2715 OEI GLN A 397 ATOM 2720 C GLN A 397 ATOM 2721 C PROA 398 ATOM 2722 CA PROA 398 ATOM 2722 CA PROA 398 ATOM 2722 CA PROA 398 ATOM 2723 CD PROA 398 ATOM 2730 CD PROA 398 ATOM 2730 CD PROA 398 ATOM 2730 CD PROA 398	<b>ATOM</b>	2642 O VAL A 392		Ō
ATOM 2645 CA GLU A 393 ATOM 2650 CG GLU A 393 ATOM 2653 CD GLU A 393 ATOM 2655 OE2 GLU A 393 ATOM 2655 OE2 GLU A 393 ATOM 2656 C GLU A 393 ATOM 2656 C GLU A 393 ATOM 2656 C GLU A 393 ATOM 2657 O GLU A 393 ATOM 2658 N ALA A 394 ATOM 2650 CG A ALA A 394 ATOM 2660 CA ALA A 394 ATOM 2660 CA ALA A 394 ATOM 2660 C A ALA A 394 ATOM 2666 C ALA A 394 ATOM 2666 C ALA A 394 ATOM 2667 O ALA A 394 ATOM 2668 N LEU A 395 ATOM 2670 CA LEU A 395 ATOM 2670 CB LEU A 395 ATOM 2670 CB LEU A 395 ATOM 2675 CG LEU A 395 ATOM 2670 CB CLEU A 395 ATOM 2670 CB GLN A 396 ATOM 2704 N GLN A 396 ATOM 2705 CB GLN A 396 ATOM 2704 N GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2707 CB CB GLN A 397 ATOM 2708 CB GLN A 397 ATOM 2708 CB GLN A 397 ATOM 2709 C GLN A 397 ATOM 2701 N PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2722 CB PRO A 398 ATOM 2722 CB PRO A 398 ATOM 2721 CB PRO A 398 ATOM 2730 CD PRO A 398	<b>ATOM</b>	2643 N GLU A 393		N
ATOM 2650 CG GLU A 393 ATOM 2650 CG GLU A 393 ATOM 2653 CD GLU A 393 ATOM 2654 OEI GLU A 393 ATOM 2655 OE2 GLU A 393 ATOM 2655 OE2 GLU A 393 ATOM 2655 OE2 GLU A 393 ATOM 2656 C GLU A 393 ATOM 2657 O GLU A 393 ATOM 2658 N ALA A 394 ATOM 2660 CA ALA A 394 ATOM 2660 CA ALA A 394 ATOM 2666 C GLU A 393 ATOM 2666 C ALA A 394 ATOM 2667 O ALA A 394 ATOM 2667 O ALA A 394 ATOM 2668 N LEU A 395 ATOM 2670 CA LEU A 395 ATOM 2670 CA LEU A 395 ATOM 2670 CDA SA 396 ATOM 2670 CDA	<b>ATOM</b>	2645 CA GLU A 393		C
ATOM 2650 CG GLU A 393 ATOM 2653 CD GLU A 393 ATOM 2654 OEI GLU A 393 ATOM 2655 OE2 GLU A 393 ATOM 2655 OE2 GLU A 393 ATOM 2656 C GLU A 393 ATOM 2657 O GLU A 393 ATOM 2658 N ALA A 394 ATOM 2658 N ALA A 394 ATOM 2660 CA ALA A 394 ATOM 2660 CB ALA A 394 ATOM 2667 O ALA A 394 ATOM 2667 O ALA A 395 ATOM 2667 O ALA A 395 ATOM 2670 CB LEU A 395 ATOM 2685 C LEU A 395 ATOM 2686 CD LEU A 395 ATOM 2687 N GLN A 396 ATOM 2688 C LEU A 395 ATOM 2689 CA GLN A 396 ATOM 2689 CB GLN A 396 ATOM 2699 NE2 GLN A 396 ATOM 2699 NE2 GLN A 396 ATOM 2699 NE2 GLN A 396 ATOM 2702 C GLN A 396 ATOM 2704 N GLN A 396 ATOM 2705 CB GLN A 396 ATOM 2706 CA GLN A 397 ATOM 2707 CD GLN A 396 ATOM 2708 CB GLN A 397 ATOM 2708 CB GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 N PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2730 CD PRO A 398	<b>ATOM</b>	2647 CB GLU A 393	28.248 18.672 67.314 1.00 22.09	C
ATOM 2653 CD GLU A 393 ATOM 2654 OE1 GLU A 393 ATOM 2655 OE2 GLU A 393 ATOM 2656 C GLU A 393 ATOM 2656 C GLU A 393 ATOM 2656 C GLU A 393 ATOM 2657 O GLU A 393 ATOM 2658 N ALA A 394 ATOM 2660 CA ALA A 394 ATOM 2660 CA ALA A 394 ATOM 2666 C ALA A 394 ATOM 2667 O ALA A 394 ATOM 2668 N LEU A 395 ATOM 2670 CA LEU A 395 ATOM 2670 CA LEU A 395 ATOM 2675 CG LEU A 395 ATOM 2675 CG LEU A 395 ATOM 2676 CA BLEU A 395 ATOM 2686 O LEU A 395 ATOM 2686 O LEU A 395 ATOM 2686 O LEU A 395 ATOM 2687 N GLN A 396 ATOM 2686 O LEU A 395 ATOM 2686 O LEU A 395 ATOM 2687 O GL BUN A 396 ATOM 2689 CA GLN A 396 ATOM 2680 CB GLN A 396 ATOM 2690 CB GLN A 396 ATOM 2691 CB GLN A 396 ATOM 2691 CB GLN A 396 ATOM 2697 CD GLN A 396 ATOM 2697 CD GLN A 396 ATOM 2697 CD GLN A 396 ATOM 2702 C GLN A 396 ATOM 2702 C GLN A 396 ATOM 2703 O GLN A 396 ATOM 2704 N GLN A 397 ATOM 2705 CB GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 C GLN A 397 ATOM 2724 CB PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2730 CD PRO A 398	<b>ATOM</b>	2650 CG GLU A 393		С
ATOM 2654 OEI GLU A 393 ATOM 2655 OE2 GLU A 393 ATOM 2655 OE2 GLU A 393 ATOM 2656 C GLU A 393 ATOM 2657 O GLU A 393 ATOM 2658 N ALA A 394 ATOM 2658 N ALA A 394 ATOM 2660 CA ALA A 394 ATOM 2662 CB ALA A 394 ATOM 2666 C ALA A 394 ATOM 2667 O ALA A 394 ATOM 2666 C ALA A 394 ATOM 2667 O ALA A 394 ATOM 2668 N LEU A 395 ATOM 2670 CA LEU A 395 ATOM 2670 CA LEU A 395 ATOM 2671 CDI LEU A 395 ATOM 2672 CB LEU A 395 ATOM 2685 C LEU A 395 ATOM 2685 C LEU A 395 ATOM 2686 O LEU A 395 ATOM 2686 O LEU A 395 ATOM 2687 N GLN A 396 ATOM 2689 CA GLN A 396 ATOM 2699 CD GLN A 396 ATOM 2699 CB GLN A 396 ATOM 2699 CG GLN A 396 ATOM 2699 CG GLN A 396 ATOM 2699 CD GLN A 396 ATOM 2702 C GLN A 396 ATOM 2702 C GLN A 396 ATOM 2704 N GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2707 CD GLN A 397 ATOM 2708 CB GLN A 397 ATOM 2716 CB CLN A 397 ATOM 2716 CA GLN A 397 ATOM 2716 CB CLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2717 CD GLN A 397 ATOM 2718 CB CLN A 397 ATOM 2719 C GLN A 397 ATOM 2720 C GLN A 397 ATOM 2710 C GLN A 397 ATOM 2710 C GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 C GLN A 397 ATOM 2712 C GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OEI GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2720 C GLN A 397 ATOM 2721 N PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2720 CD PRO A 398 ATOM 2720 CD PRO A 398 ATOM 2721 CG PRO A 398 ATOM 2721 CG PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2730 CD PRO A 398	<b>ATOM</b>	2653 CD GLU A 393		C
ATOM 2656 C GLU A 393	<b>ATOM</b>	2654 OE1 GLU A 393		C
ATOM 2657 O GLU A 393 ATOM 2658 N ALA A 394 ATOM 2660 CA ALA A 394 ATOM 2660 CA ALA A 394 ATOM 2660 CA ALA A 394 ATOM 2666 C ALA A 394 ATOM 2666 C ALA A 394 ATOM 2666 C ALA A 394 ATOM 2667 O ALA A 394 ATOM 2668 N LEU A 395 ATOM 2670 CA LEU A 395 ATOM 2670 CA LEU A 395 ATOM 2670 CB LEU A 395 ATOM 2686 C LEU A 395 ATOM 2686 C LEU A 395 ATOM 2687 N GLN A 396 ATOM 2688 O LEU A 395 ATOM 2689 CA GLN A 396 ATOM 2690 NEZ GLN A 396 ATOM 2690 NEZ GLN A 396 ATOM 2698 OEI GLN A 396 ATOM 2698 OEI GLN A 396 ATOM 2702 C GLN A 396 ATOM 2704 N GLN A 396 ATOM 2705 CA GLN A 396 ATOM 2706 CA GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 C GLN A 397 ATOM 2712 C GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 C GLN A 397 ATOM 2712 C GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OEI GLN A 397 ATOM 2716 NEZ GLN A 397 ATOM 2720 C GLN A 397 ATOM 2720	<b>ATOM</b>	2655 OE2 GLU A 393	25.299 17.600 67.889 1.00 29.86	C
ATOM 2658 N ALA A 394 ATOM 2660 CA ALA A 394 ATOM 2662 CB ALA A 394 ATOM 2666 C ALA A 394 ATOM 2666 C ALA A 394 ATOM 2666 C ALA A 394 ATOM 2667 O ALA A 394 ATOM 2668 N LEU A 395 ATOM 2670 CA LEU A 395 ATOM 2675 CG LEU A 395 ATOM 2677 CD1 LEU A 395 ATOM 2681 CD2 LEU A 395 ATOM 2685 C LEU A 395 ATOM 2686 O LEU A 395 ATOM 2687 N GLN A 396 ATOM 2687 N GLN A 396 ATOM 2689 CA GLN A 396 ATOM 2699 PRE GLN A 396 ATOM 2690 CB GLN A 396 ATOM 2690 CB GLN A 396 ATOM 2690 CB GLN A 396 ATOM 2702 C GLN A 396 ATOM 2702 C GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 C GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 C GLN A 397 ATOM 2716 NEZ GLN A 397 ATOM 2716 NEZ GLN A 397 ATOM 2722 CA PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2730 CD PRO A 398	<b>ATOM</b>	2656 C GLU A 393	29.106 21.018 67.326 1.00 21.32	С
ATOM 2660 CA ALA A 394 ATOM 2662 CB ALA A 394 ATOM 2666 C ALA A 394 ATOM 2666 C ALA A 394 ATOM 2666 C ALA A 394 ATOM 2667 O ALA A 394 ATOM 2668 N LEU A 395 ATOM 2670 CA LEU A 395 ATOM 2672 CB LEU A 395 ATOM 2675 CG LEU A 395 ATOM 2677 CD1 LEU A 395 ATOM 2681 CD2 LEU A 395 ATOM 2685 C LEU A 395 ATOM 2686 O LEU A 395 ATOM 2686 O LEU A 395 ATOM 2687 N GLN A 396 ATOM 2691 CB GLN A 396 ATOM 2691 CB GLN A 396 ATOM 2694 CG GLN A 396 ATOM 2699 NE2 GLN A 396 ATOM 2698 OE1 GLN A 396 ATOM 2700 C GLN A 396 ATOM 2701 C GLN A 396 ATOM 2702 C GLN A 396 ATOM 2704 N GLN A 397 ATOM 2705 CB GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 C GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OE1 GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2710 C GLN A 397 ATOM 2710 C GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 C GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OE1 GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2710 C GLN A 397 ATOM 2711 N PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2720 CD PRO A 398 ATOM 2720	<b>ATOM</b>	2657 O GLU A 393	28.547 21.851 66.618 1.00 21.71	О
ATOM 2662 CB ALA A 394 ATOM 2666 C ALA A 394 ATOM 2668 N LEU A 395 ATOM 2670 CA LEU A 395 ATOM 2670 CA LEU A 395 ATOM 2675 CG LEU A 395 ATOM 2675 CG LEU A 395 ATOM 2675 CG LEU A 395 ATOM 2676 CA LEU A 395 ATOM 2681 CD2 LEU A 395 ATOM 2682 C LEU A 395 ATOM 2685 C LEU A 395 ATOM 2686 O LEU A 395 ATOM 2687 N GLN A 396 ATOM 2694 CG GLN A 396 ATOM 2699 CA GLN A 396 ATOM 2697 CD GLN A 396 ATOM 2698 OEI GLN A 396 ATOM 2698 OEI GLN A 396 ATOM 2702 C GLN A 396 ATOM 2703 O GLN A 396 ATOM 2704 N GLN A 397 ATOM 2704 CD GLN A 397 ATOM 2705 CB GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2707 CD GLN A 397 ATOM 2708 CB GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OEI GLN A 397 ATOM 2716 NEZ GLN A 397 ATOM 2710 C GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 C GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OEI GLN A 397 ATOM 2716 NEZ GLN A 397 ATOM 2717 CD GLN A 397 ATOM 2718 C GLN A 397 ATOM 2719 C GLN A 397 ATOM 2710 C GLN A 397 ATOM 2720 C GLN A 397 ATOM 2721 C G PRO A 398 ATOM 2722 C A PRO A 398 ATOM 2722 C A PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2725 C G PRO A 398 ATOM 2720 C G PRO A 398 ATOM 27	<b>ATOM</b>	2658 N ALA A 394	29.513 21.266 68.568 1.00 20.57	N
ATOM 2666 C ALA A 394 ATOM 2667 O ALA A 394 ATOM 2667 O ALA A 394 ATOM 2668 N LEU A 395 ATOM 2668 N LEU A 395 ATOM 2670 CA LEU A 395 ATOM 2670 CA LEU A 395 ATOM 2675 CG LEU A 395 ATOM 2676 CG LEU A 395 ATOM 2677 CD1 LEU A 395 ATOM 2681 CD2 LEU A 395 ATOM 2685 C LEU A 395 ATOM 2686 O LEU A 395 ATOM 2686 O LEU A 395 ATOM 2687 N GLN A 396 ATOM 2689 CA GLN A 396 ATOM 2691 CB GLN A 396 ATOM 2694 CG GLN A 396 ATOM 2697 CD GLN A 396 ATOM 2698 OEI GLN A 396 ATOM 2698 OEI GLN A 396 ATOM 2690 NE2 GLN A 396 ATOM 2690 NE2 GLN A 396 ATOM 2702 C GLN A 396 ATOM 2702 C GLN A 396 ATOM 2704 N GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2707 CG GLN A 397 ATOM 2708 CB GLN A 397 ATOM 2708 CB GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 CG GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2710 CG GLN A 397 ATOM 2710 CG GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 CG GLN A 397 ATOM 2712 CG GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OEI GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2717 CG GLN A 397 ATOM 2718 CB GLN A 397 ATOM 2719 C GLN A 397 ATOM 2710 CG GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 CG GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OEI GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2717 CG GLN A 397 ATOM 2718 CB GLN A 397 ATOM 2719 C GLN A 397 ATOM 2720 O GLN A 397 ATOM 2720 O GLN A 397 ATOM 2720 C GLN A 398 ATOM 2722 CA PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2720 CD PRO A 398 ATOM 2720 CD PRO A 398 ATOM 2721 CG PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2726 CD PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2730 CD PRO A 398 ATOM	ATOM	2660 CA ALA A 394	29.487 22.622 69.140 1.00 20.63	С
ATOM 2667 O ALA A 394 ATOM 2668 N LEU A 395 ATOM 2670 CA LEU A 395 ATOM 2670 CA LEU A 395 ATOM 2675 CG LEU A 395 ATOM 2675 CG LEU A 395 ATOM 2676 CD1 LEU A 395 ATOM 2676 CD1 LEU A 395 ATOM 2677 CD1 LEU A 395 ATOM 2677 CD1 LEU A 395 ATOM 2678 CD2 LEU A 395 ATOM 2681 CD2 LEU A 395 ATOM 2685 C LEU A 395 ATOM 2686 O LEU A 395 ATOM 2687 N GLN A 396 ATOM 2687 N GLN A 396 ATOM 2699 CB GLN A 396 ATOM 2699 CD GLN A 396 ATOM 2690 CD GLN A 396 ATOM 2690 NE2 GLN A 396 ATOM 2702 C GLN A 396 ATOM 2703 O GLN A 396 ATOM 2704 N GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2707 CD1 GLN A 397 ATOM 2708 CB GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 CG GLN A 397 ATOM 2712 CG PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2722 CG PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2720 CD PRO A 398 ATOM 2720 CD PRO A 398 ATOM 2721 CD PRO A 398 ATOM 2722 CG PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2730 CD PRO A 398 ATOM 2730 CD PRO A 398 ATOM 2730 CD PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2720 CD PRO A 398 ATOM 2721 CD PRO A 398 ATOM 2721 CD PRO A 398 ATOM 2722 CG PRO A 398 ATOM 2724 CB PRO A 398	<b>ATOM</b>	2662 CB ALA A 394	29.963 22.621 70.604 1.00 20.34	С
ATOM 2668 N LEU A 395 ATOM 2670 CA LEU A 395 ATOM 2672 CB LEU A 395 ATOM 2675 CG LEU A 395 ATOM 2676 CD LEU A 395 ATOM 2677 CD1 LEU A 395 ATOM 2677 CD1 LEU A 395 ATOM 2681 CD2 LEU A 395 ATOM 2686 C LEU A 395 ATOM 2686 O LEU A 395 ATOM 2687 N GLN A 396 ATOM 2689 CA GLN A 396 ATOM 2690 CB GLN A 396 ATOM 2690 CB GLN A 396 ATOM 2690 NE2 GLN A 396 ATOM 2700 C GLN A 397 ATOM 2701 CG GLN A 397 ATOM 2701 CG GLN A 397 ATOM 2702 C GLN A 396 ATOM 2704 N GLN A 397 ATOM 2705 CB GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2707 CG PRO A 398 ATOM 2707 CD PRO A 398 ATOM 2708 CD PRO A 398 ATOM 2708 CD PRO A 398 ATOM 2709 CD PRO A 398 AT	<b>ATOM</b>	2666 C ALA A 394	30.311 23.610 68.336 1.00 20.23	С
ATOM 2670 CA LEU A 395 ATOM 2672 CB LEU A 395 ATOM 2675 CG LEU A 395 ATOM 2676 CD1 LEU A 395 ATOM 2677 CD1 LEU A 395 ATOM 2681 CD2 LEU A 395 ATOM 2685 C LEU A 395 ATOM 2686 O LEU A 395 ATOM 2687 N GLN A 396 ATOM 2689 CA GLN A 396 ATOM 2691 CB GLN A 396 ATOM 2691 CB GLN A 396 ATOM 2694 CG GLN A 396 ATOM 2698 OE1 GLN A 396 ATOM 2698 OE1 GLN A 396 ATOM 2702 C GLN A 396 ATOM 2704 N GLN A 397 ATOM 2704 CA GLN A 397 ATOM 2705 CB GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 CG GLN A 397 ATOM 2715 OE1 GLN A 397 ATOM 2710 CGLN A 397 ATOM 2720 C GLN A 397 ATOM 2710 CGLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 CG PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2722 CG PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2720 CD PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2720 CD PRO A 398 ATOM 2720 CD PRO A 398 ATOM 2721 CG PRO A 398 ATOM 2722 CG PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2730 CD PRO A 398 ATOM 2730 CD PRO A 398	<b>ATOM</b>	2667 O ALA A 394	29.905 24.737 68.177 1.00 21.04	O
ATOM 2672 CB LEU A 395 ATOM 2675 CG LEU A 395 ATOM 2676 CD1 LEU A 395 ATOM 2681 CD2 LEU A 395 ATOM 2681 CD2 LEU A 395 ATOM 2685 C LEU A 395 ATOM 2686 O LEU A 395 ATOM 2687 N GLN A 396 ATOM 2699 CA GLN A 396 ATOM 2691 CB GLN A 396 ATOM 2694 CG GLN A 396 ATOM 2696 OEI GLN A 396 ATOM 2697 CD GLN A 396 ATOM 2698 OEI GLN A 396 ATOM 2703 O GLN A 396 ATOM 2704 N GLN A 396 ATOM 2706 CA GLN A 397 ATOM 2708 CB GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 CG GLN A 397 ATOM 2715 OEI GLN A 397 ATOM 2710 C GLN A 397 ATOM 2710 C GLN A 397 ATOM 2711 C GLN A 397 ATOM 2712 C GLN A 397 ATOM 2712 C GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OEI GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2720 C GLN A 397 ATOM 2720 C GLN A 397 ATOM 2721 N PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2730 CD PRO A 398 ATOM 2730 CD PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2730 CD PRO A 398	ATOM	2668 N LEUA 395	31.461 23.190 67.822 1.00 20.50	N
ATOM 2675 CG LEU A 395 ATOM 2677 CD1 LEU A 395 ATOM 2681 CD2 LEU A 395 ATOM 2685 C LEU A 395 ATOM 2686 O LEU A 395 ATOM 2687 N GLN A 396 ATOM 2689 CA GLN A 396 ATOM 2699 CB GLN A 396 ATOM 2690 CB GLN A 396 ATOM 2690 NE2 GLN A 396 ATOM 2702 C GLN A 396 ATOM 2704 N GLN A 397 ATOM 2705 CA GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2710 C GLN A 397 ATOM 2710 C GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 C GLN A 397 ATOM 2712 C GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OE1 GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2720 C GLN A 397 ATOM 2717 CG LN A 397 ATOM 2718 CB GLN A 397 ATOM 2719 C GLN A 397 ATOM 2720 C GLN A 397 ATOM 2721 N PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2730 CD PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2730 CD PRO A 398 ATOM 2730 CD PRO A 398	ATOM	2670 CA LEU A 395	32.321 24.064 66.995 1.00 20.42	С
ATOM 2681 CD2 LEU A 395 ATOM 2681 CD2 LEU A 395 ATOM 2685 C LEU A 395 ATOM 2686 O LEU A 395 ATOM 2686 O LEU A 395 ATOM 2687 N GLN A 396 ATOM 2689 CA GLN A 396 ATOM 2691 CB GLN A 396 ATOM 2691 CB GLN A 396 ATOM 2697 CD GLN A 396 ATOM 2698 OEI GLN A 396 ATOM 2698 OEI GLN A 396 ATOM 2702 C GLN A 396 ATOM 2704 N GLN A 397 ATOM 2705 CA GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OEI GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2720 C GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2717 CG GLN A 397 ATOM 2718 CB GLN A 397 ATOM 2719 C GLN A 397 ATOM 2710 C GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 CG GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OEI GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2720 C GLN A 397 ATOM 2720 C GLN A 397 ATOM 2721 CG GLN A 397 ATOM 2722 CA PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2730 CD PRO A 398	ATOM	2672 CB LEU A 395	33.735 23.485 66.916 1.00 20.95	С
ATOM 2681 CD2 LEU A 395 ATOM 2685 C LEU A 395 ATOM 2686 O LEU A 395 ATOM 2687 N GLN A 396 ATOM 2689 CA GLN A 396 ATOM 2691 CB GLN A 396 ATOM 2694 CG GLN A 396 ATOM 2697 CD GLN A 396 ATOM 2698 OE1 GLN A 396 ATOM 2698 OE1 GLN A 396 ATOM 2702 C GLN A 396 ATOM 2702 C GLN A 396 ATOM 2704 N GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2708 CB GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 C GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OE1 GLN A 397 ATOM 2710 C GLN A 397 ATOM 2710 C GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 C GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OE1 GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2720 O GLN A 397 ATOM 2721 N PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2730 CD PRO A 398 ATOM 2721 CG PRO A 398 ATOM 2721 CG PRO A 398 ATOM 2722 CG PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2730 CD PRO A 398 ATOM 2730 CD PRO A 398	ATOM	2675 CG LEU A 395	34.556 23.430 68.201 1.00 21.40	С
ATOM 2685 C LEU A 395 ATOM 2686 O LEU A 395 ATOM 2687 N GLN A 396 ATOM 2689 CA GLN A 396 ATOM 2691 CB GLN A 396 ATOM 2694 CG GLN A 396 ATOM 2697 CD GLN A 396 ATOM 2698 OEI GLN A 396 ATOM 2698 OEI GLN A 396 ATOM 2699 NE2 GLN A 396 ATOM 2702 C GLN A 396 ATOM 2702 C GLN A 396 ATOM 2704 N GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 C GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OEI GLN A 397 ATOM 2710 C GLN A 397 ATOM 2720 C GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 CG GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OEI GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2720 C GLN A 397 ATOM 2721 N PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2730 CD PRO A 398	ATOM	2677 CD1 LEU A 395	35.821 22.577 68.001 1.00 22.05	С
ATOM 2686 O LEU A 395 ATOM 2687 N GLN A 396 ATOM 2689 CA GLN A 396 ATOM 2691 CB GLN A 396 ATOM 2694 CG GLN A 396 ATOM 2697 CD GLN A 396 ATOM 2698 OE1 GLN A 396 ATOM 2698 NE2 GLN A 396 ATOM 2702 C GLN A 396 ATOM 2704 N GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2715 OE1 GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2720 O GLN A 397 ATOM 2720 C GLN A 397 ATOM 2721 N PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2730 CD PRO A 398 ATOM 2730 CD PRO A 398 ATOM 2730 CD PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2730 CD PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2730 CD PRO A 398	ATOM	2681 CD2 LEU A 395	34.909 24.806 68.674 1.00 22.08	С
ATOM 2687 N GLN A 396 ATOM 2689 CA GLN A 396 ATOM 2691 CB GLN A 396 ATOM 2694 CG GLN A 396 ATOM 2697 CD GLN A 396 ATOM 2698 OE1 GLN A 396 ATOM 2698 NE2 GLN A 396 ATOM 2702 C GLN A 396 ATOM 2704 N GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OE1 GLN A 397 ATOM 2710 C GLN A 397 ATOM 2711 C GLN A 397 ATOM 2711 C GLN A 397 ATOM 2712 C GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OE1 GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2710 C GLN A 397 ATOM 2711 C GLN A 397 ATOM 2711 C GLN A 397 ATOM 2712 C GLN A 397 ATOM 2713 OE1 GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OE1 GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2717 C GLN A 397 ATOM 2718 C GLN A 397 ATOM 2720 C GLN A 398 ATOM 2720 C G PRO A 398 ATOM 2721 C G PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2730 CD PRO A 398 ATOM 2730 CD PRO A 398 ATOM 2730 CD PRO A 398	ATOM	2685 C LEU A 395	31.814 24.286 65.564 1.00 20.04	C
ATOM 2689 CA GLN A 396 ATOM 2691 CB GLN A 396 ATOM 2694 CG GLN A 396 ATOM 2697 CD GLN A 396 ATOM 2698 OE1 GLN A 396 ATOM 2699 NE2 GLN A 396 ATOM 2702 C GLN A 396 ATOM 2704 N GLN A 397 ATOM 2708 CB GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OE1 GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2710 C GLN A 397 ATOM 2710 C GLN A 397 ATOM 2711 C GLN A 397 ATOM 2711 C GLN A 397 ATOM 2712 C GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OE1 GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2710 C GLN A 397 ATOM 2711 C GLN A 397 ATOM 2712 C GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OE1 GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2710 C GLN A 397 ATOM 2711 C GLN A 397 ATOM 2712 C GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OE1 GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2720 C GLN A 398 ATOM 2720 C	ATOM	2686 O LEUA 395	32.072 25.331 64.962 1.00 20.55	Ο
ATOM 2689 CA GLN A 396 ATOM 2691 CB GLN A 396 ATOM 2694 CG GLN A 396 ATOM 2697 CD GLN A 396 ATOM 2698 OE1 GLN A 396 ATOM 2699 NE2 GLN A 396 ATOM 2702 C GLN A 396 ATOM 2703 O GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OE1 GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2710 C GLN A 397 ATOM 2710 C GLN A 397 ATOM 2711 C GLN A 397 ATOM 2711 C GLN A 397 ATOM 2712 C GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OE1 GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2717 C GLN A 397 ATOM 2718 C GLN A 397 ATOM 2719 C GLN A 397 ATOM 2720 O GLN A 397 ATOM 2720 C GLN A 398 ATOM 2721 N PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2730 CD PRO A 398 29.816 22.092 63.308 1.00 19.46 29.349 22.087 61.880 1.00 20.05 28.547 20.868 61.512 1.00 20.05 28.547 20.868 61.512 1.00 20.05 28.547 20.868 61.512 1.00 20.05 28.547 20.868 61.512 1.00 20.76 29.350 24.466 63.745 1.00 20.87 29.350 24.466 63.745 1.00 20.14 CATOM 2730 CD PRO A 398 30.460 23.342 50.02 2.097 29.512 63.507 1.00 18.85 ATOM 2730 CD PRO A 398 29.657 27.204 66.034 1.00 19.69	ATOM	2687 N GLN A 396	31.114 23.299 65.022 1.00 19.81	N
ATOM 2694 CG GLN A 396 ATOM 2697 CD GLN A 396 ATOM 2698 OE1 GLN A 396 ATOM 2699 NE2 GLN A 396 ATOM 2702 C GLN A 396 ATOM 2703 O GLN A 396 ATOM 2704 N GLN A 397 ATOM 2708 CB GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 CD GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OE1 GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2719 C GLN A 397 ATOM 2710 C GLN A 397 ATOM 2711 N PRO A 398 ATOM 2722 CA PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2720 CD PRO A 398 ATOM 2720 CD RO A 398 ATOM 2720 CD RO A 398 ATOM 2721 CG PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2730 CD PRO A 398	ATOM	2689 CA GLN A 396	30.460 23.425 63.726 1.00 19.89	С
ATOM 2697 CD GLN A 396 ATOM 2698 OE1 GLN A 396 ATOM 2699 NE2 GLN A 396 ATOM 2702 C GLN A 396 ATOM 2703 O GLN A 396 ATOM 2704 N GLN A 397 ATOM 2706 CA GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2711 CG GLN A 397 ATOM 2712 CD GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OE1 GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2710 CD GLN A 397 ATOM 2711 CD GLN A 397 ATOM 2711 CD GLN A 397 ATOM 2712 CD GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OE1 GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2717 CD GLN A 397 ATOM 2718 CD GLN A 397 ATOM 2719 C GLN A 397 ATOM 2710 CD GLN A 397 ATOM 2711 CD GLN A 397 ATOM 2711 CD GLN A 397 ATOM 2712 CD GLN A 397 ATOM 2713 OE1 GLN A 397 ATOM 2714 CD GLN A 397 ATOM 2715 OE1 GLN A 397 ATOM 2716 NE2 GLN A 397 ATOM 2717 CD GLN A 397 ATOM 2718 CD GLN A 397 ATOM 2719 C GLN A 397 ATOM 2720 O GLN A 397 ATOM 2721 N PRO A 398 ATOM 2721 CD GLN A 398 ATOM 2722 CA PRO A 398 ATOM 2724 CB PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2727 CG PRO A 398 ATOM 2730 CD PRO A 398 28.677 27.204 66.034 1.00 19.69	ATOM	2691 CB GLN A 396	29.816 22.092 63.308 1.00 19.46	С
ATOM 2698 OE1 GLN A 396	ATOM	2694 CG GLN A 396	29.349 22.087 61.880 1.00 20.05	С
ATOM 2699 NE2 GLN A 396 27.415 20.701 62.155 1.00 19.29 ATOM 2702 C GLN A 396 29.350 24.466 63.745 1.00 20.14 ATOM 2703 O GLN A 396 29.106 25.131 62.739 1.00 19.96 ATOM 2704 N GLN A 397 28.666 24.573 64.883 1.00 20.08 ATOM 2706 CA GLN A 397 27.486 25.435 65.013 1.00 20.81 ATOM 2708 CB GLN A 397 26.953 25.404 66.461 1.00 21.11 ATOM 2711 CG GLN A 397 25.829 26.375 66.731 1.00 22.41 ATOM 2714 CD GLN A 397 25.275 26.284 68.143 1.00 25.12 ATOM 2715 OE1 GLN A 397 25.037 27.319 68.798 1.00 27.27 ATOM 2716 NE2 GLN A 397 25.059 25.069 68.614 1.00 24.96 ATOM 2720 O GLN A 397 26.883 27.373 63.738 1.00 20.40 ATOM 2721 N PRO A 398 28.677 27.616 65.020 1.00 18.90 ATOM 2722 CA PRO A 398 28.857 29.018 64.614 1.00 19.15 ATOM 2724 CB PRO A 398 30.007 29.512 65.507 1.00 18.85 ATOM 2727 CG PRO A 398 30.743 28.277 65.909 1.00 20.07 ATOM 2730 CD PRO A 398 29.657 27.204 66.034 1.00 19.69	ATOM	2697 CD GLN A 396	28.547 20.868 61.512 1.00 20.76	С
ATOM 2702 C GLN A 396 29.350 24.466 63.745 1.00 20.14 ATOM 2703 O GLN A 396 29.106 25.131 62.739 1.00 19.96 ATOM 2704 N GLN A 397 28.666 24.573 64.883 1.00 20.08 ATOM 2706 CA GLN A 397 27.486 25.435 65.013 1.00 20.81 ATOM 2708 CB GLN A 397 26.953 25.404 66.461 1.00 21.11 ATOM 2711 CG GLN A 397 25.829 26.375 66.731 1.00 22.41 ATOM 2714 CD GLN A 397 25.275 26.284 68.143 1.00 25.12 ATOM 2715 OEI GLN A 397 25.037 27.319 68.798 1.00 27.27 ATOM 2716 NE2 GLN A 397 25.059 25.069 68.614 1.00 24.96 ATOM 2719 C GLN A 397 27.676 26.899 64.538 1.00 19.94 ATOM 2720 O GLN A 397 26.883 27.373 63.738 1.00 20.40 ATOM 2721 N PRO A 398 28.677 27.616 65.020 1.00 18.90 ATOM 2722 CA PRO A 398 28.857 29.018 64.614 1.00 19.15 ATOM 2724 CB PRO A 398 30.007 29.512 65.507 1.00 18.85 ATOM 2727 CG PRO A 398 30.743 28.277 65.909 1.00 20.07 ATOM 2730 CD PRO A 398 29.657 27.204 66.034 1.00 19.69	ATOM	2698 OE1 GLN A 396	28.946 20.093 60.639 1.00 20.87	0
ATOM 2703 O GLN A 396 29.106 25.131 62.739 1.00 19.96 ATOM 2704 N GLN A 397 28.666 24.573 64.883 1.00 20.08 ATOM 2706 CA GLN A 397 27.486 25.435 65.013 1.00 20.81 ATOM 2708 CB GLN A 397 26.953 25.404 66.461 1.00 21.11 ATOM 2711 CG GLN A 397 25.829 26.375 66.731 1.00 22.41 ATOM 2714 CD GLN A 397 25.275 26.284 68.143 1.00 25.12 ATOM 2715 OE1 GLN A 397 25.037 27.319 68.798 1.00 27.27 ATOM 2716 NE2 GLN A 397 25.059 25.069 68.614 1.00 24.96 ATOM 2719 C GLN A 397 27.676 26.899 64.538 1.00 19.94 ATOM 2720 O GLN A 397 26.883 27.373 63.738 1.00 20.40 ATOM 2721 N PRO A 398 28.677 27.616 65.020 1.00 18.90 N ATOM 2722 CA PRO A 398 28.857 29.018 64.614 1.00 19.15 ATOM 2724 CB PRO A 398 30.007 29.512 65.507 1.00 18.85 ATOM 2727 CG PRO A 398 30.743 28.277 65.909 1.00 20.07 ATOM 2730 CD PRO A 398 29.657 27.204 66.034 1.00 19.69	ATOM	2699 NE2 GLN A 396	27.415 20.701 62.155 1.00 19.29	N
ATOM 2704 N GLN A 397 28.666 24.573 64.883 1.00 20.08 ATOM 2706 CA GLN A 397 27.486 25.435 65.013 1.00 20.81 ATOM 2708 CB GLN A 397 26.953 25.404 66.461 1.00 21.11 ATOM 2711 CG GLN A 397 25.829 26.375 66.731 1.00 22.41 ATOM 2714 CD GLN A 397 25.275 26.284 68.143 1.00 25.12 ATOM 2715 OE1 GLN A 397 25.037 27.319 68.798 1.00 27.27 ATOM 2716 NE2 GLN A 397 25.059 25.069 68.614 1.00 24.96 ATOM 2719 C GLN A 397 27.676 26.899 64.538 1.00 19.94 ATOM 2720 O GLN A 397 26.883 27.373 63.738 1.00 20.40 ATOM 2721 N PRO A 398 28.677 27.616 65.020 1.00 18.90 N ATOM 2722 CA PRO A 398 28.857 29.018 64.614 1.00 19.15 ATOM 2724 CB PRO A 398 30.007 29.512 65.507 1.00 18.85 ATOM 2727 CG PRO A 398 30.743 28.277 65.909 1.00 20.07 ATOM 2730 CD PRO A 398 29.657 27.204 66.034 1.00 19.69	ATOM	2702 C GLN A 396	29.350 24.466 63.745 1.00 20.14	C
ATOM 2706 CA GLN A 397 27.486 25.435 65.013 1.00 20.81 ATOM 2708 CB GLN A 397 26.953 25.404 66.461 1.00 21.11 ATOM 2711 CG GLN A 397 25.829 26.375 66.731 1.00 22.41 ATOM 2714 CD GLN A 397 25.275 26.284 68.143 1.00 25.12 ATOM 2715 OE1 GLN A 397 25.037 27.319 68.798 1.00 27.27 ATOM 2716 NE2 GLN A 397 25.059 25.069 68.614 1.00 24.96 ATOM 2719 C GLN A 397 27.676 26.899 64.538 1.00 19.94 ATOM 2720 O GLN A 397 26.883 27.373 63.738 1.00 20.40 ATOM 2721 N PRO A 398 28.677 27.616 65.020 1.00 18.90 N ATOM 2722 CA PRO A 398 28.857 29.018 64.614 1.00 19.15 ATOM 2724 CB PRO A 398 30.007 29.512 65.507 1.00 18.85 ATOM 2727 CG PRO A 398 30.743 28.277 65.909 1.00 20.07 ATOM 2730 CD PRO A 398 29.657 27.204 66.034 1.00 19.69	ATOM	2703 O GLN A 396	29.106 25.131 62.739 1.00 19.96	O
ATOM 2708 CB GLN A 397 26.953 25.404 66.461 1.00 21.11 (ATOM 2711 CG GLN A 397 25.829 26.375 66.731 1.00 22.41 ATOM 2714 CD GLN A 397 25.275 26.284 68.143 1.00 25.12 (ATOM 2715 OE1 GLN A 397 25.037 27.319 68.798 1.00 27.27 ATOM 2716 NE2 GLN A 397 25.059 25.069 68.614 1.00 24.96 ATOM 2719 C GLN A 397 27.676 26.899 64.538 1.00 19.94 CATOM 2720 O GLN A 397 26.883 27.373 63.738 1.00 20.40 ATOM 2721 N PRO A 398 28.677 27.616 65.020 1.00 18.90 NATOM 2722 CA PRO A 398 28.857 29.018 64.614 1.00 19.15 ATOM 2724 CB PRO A 398 30.007 29.512 65.507 1.00 18.85 ATOM 2727 CG PRO A 398 30.743 28.277 65.909 1.00 20.07 ATOM 2730 CD PRO A 398 29.657 27.204 66.034 1.00 19.69	ATOM	2704 N GLN A 397	28.666 24.573 64.883 1.00 20.08	N
ATOM 2711 CG GLN A 397 25.829 26.375 66.731 1.00 22.41 ATOM 2714 CD GLN A 397 25.275 26.284 68.143 1.00 25.12 ATOM 2715 OE1 GLN A 397 25.037 27.319 68.798 1.00 27.27 ATOM 2716 NE2 GLN A 397 25.059 25.069 68.614 1.00 24.96 ATOM 2719 C GLN A 397 27.676 26.899 64.538 1.00 19.94 ATOM 2720 O GLN A 397 26.883 27.373 63.738 1.00 20.40 ATOM 2721 N PRO A 398 28.677 27.616 65.020 1.00 18.90 N ATOM 2722 CA PRO A 398 28.857 29.018 64.614 1.00 19.15 ATOM 2724 CB PRO A 398 30.007 29.512 65.507 1.00 18.85 ATOM 2727 CG PRO A 398 30.743 28.277 65.909 1.00 20.07 ATOM 2730 CD PRO A 398 29.657 27.204 66.034 1.00 19.69	ATOM	2706 CA GLN A 397	27.486 25.435 65.013 1.00 20.81	С
ATOM 2714 CD GLN A 397 25.275 26.284 68.143 1.00 25.12 ATOM 2715 OE1 GLN A 397 25.037 27.319 68.798 1.00 27.27 ATOM 2716 NE2 GLN A 397 25.059 25.069 68.614 1.00 24.96 ATOM 2719 C GLN A 397 27.676 26.899 64.538 1.00 19.94 C ATOM 2720 O GLN A 397 26.883 27.373 63.738 1.00 20.40 OATOM 2721 N PRO A 398 28.677 27.616 65.020 1.00 18.90 N ATOM 2722 CA PRO A 398 28.857 29.018 64.614 1.00 19.15 ATOM 2724 CB PRO A 398 30.007 29.512 65.507 1.00 18.85 ATOM 2727 CG PRO A 398 30.743 28.277 65.909 1.00 20.07 ATOM 2730 CD PRO A 398 29.657 27.204 66.034 1.00 19.69	ATOM	2708 CB GLN A 397	26.953 25.404 66.461 1.00 21.11	С
ATOM 2715 OE1 GLN A 397 25.037 27.319 68.798 1.00 27.27 ATOM 2716 NE2 GLN A 397 25.059 25.069 68.614 1.00 24.96 ATOM 2719 C GLN A 397 27.676 26.899 64.538 1.00 19.94 ATOM 2720 O GLN A 397 26.883 27.373 63.738 1.00 20.40 ATOM 2721 N PRO A 398 28.677 27.616 65.020 1.00 18.90 N ATOM 2722 CA PRO A 398 28.857 29.018 64.614 1.00 19.15 ATOM 2724 CB PRO A 398 30.007 29.512 65.507 1.00 18.85 ATOM 2727 CG PRO A 398 30.743 28.277 65.909 1.00 20.07 ATOM 2730 CD PRO A 398 29.657 27.204 66.034 1.00 19.69	ATOM	2711 CG GLN A 397	25.829 26.375 66.731 1.00 22.41	С
ATOM 2716 NE2 GLN A 397 25.059 25.069 68.614 1.00 24.96 ATOM 2719 C GLN A 397 27.676 26.899 64.538 1.00 19.94 ATOM 2720 O GLN A 397 26.883 27.373 63.738 1.00 20.40 ATOM 2721 N PRO A 398 28.677 27.616 65.020 1.00 18.90 N ATOM 2722 CA PRO A 398 28.857 29.018 64.614 1.00 19.15 ATOM 2724 CB PRO A 398 30.007 29.512 65.507 1.00 18.85 ATOM 2727 CG PRO A 398 30.743 28.277 65.909 1.00 20.07 ATOM 2730 CD PRO A 398 29.657 27.204 66.034 1.00 19.69	ATOM	2714 CD GLN A 397	25.275 26.284 68.143 1.00 25.12	С
ATOM 2719 C GLN A 397 27.676 26.899 64.538 1.00 19.94 C ATOM 2720 O GLN A 397 26.883 27.373 63.738 1.00 20.40 O ATOM 2721 N PRO A 398 28.677 27.616 65.020 1.00 18.90 N ATOM 2722 CA PRO A 398 28.857 29.018 64.614 1.00 19.15 ATOM 2724 CB PRO A 398 30.007 29.512 65.507 1.00 18.85 ATOM 2727 CG PRO A 398 30.743 28.277 65.909 1.00 20.07 ATOM 2730 CD PRO A 398 29.657 27.204 66.034 1.00 19.69	ATOM	2715 OE1 GLN A 397	25.037 27.319 68.798 1.00 27.27	О
ATOM 2720 O GLN A 397 26.883 27.373 63.738 1.00 20.40 O ATOM 2721 N PRO A 398 28.677 27.616 65.020 1.00 18.90 N ATOM 2722 CA PRO A 398 28.857 29.018 64.614 1.00 19.15 ATOM 2724 CB PRO A 398 30.007 29.512 65.507 1.00 18.85 ATOM 2727 CG PRO A 398 30.743 28.277 65.909 1.00 20.07 ATOM 2730 CD PRO A 398 29.657 27.204 66.034 1.00 19.69	ATOM	2716 NE2 GLN A 397	25.059 25.069 68.614 1.00 24.96	N
ATOM 2721 N PRO A 398 28.677 27.616 65.020 1.00 18.90 N ATOM 2722 CA PRO A 398 28.857 29.018 64.614 1.00 19.15 CATOM 2724 CB PRO A 398 30.007 29.512 65.507 1.00 18.85 ATOM 2727 CG PRO A 398 30.743 28.277 65.909 1.00 20.07 ATOM 2730 CD PRO A 398 29.657 27.204 66.034 1.00 19.69	ATOM	2719 C GLN A 397	27.676 26.899 64.538 1.00 19.94	С
ATOM 2722 CA PRO A 398 28.857 29.018 64.614 1.00 19.15 CATOM 2724 CB PRO A 398 30.007 29.512 65.507 1.00 18.85 ATOM 2727 CG PRO A 398 30.743 28.277 65.909 1.00 20.07 ATOM 2730 CD PRO A 398 29.657 27.204 66.034 1.00 19.69	ATOM	2720 O GLN A 397	26.883 27.373 63.738 1.00 20.40	O
ATOM 2722 CA PRO A 398 28.857 29.018 64.614 1.00 19.15 CATOM 2724 CB PRO A 398 30.007 29.512 65.507 1.00 18.85 ATOM 2727 CG PRO A 398 30.743 28.277 65.909 1.00 20.07 ATOM 2730 CD PRO A 398 29.657 27.204 66.034 1.00 19.69			28.677 27.616 65.020 1.00 18.90	N
ATOM 2727 CG PRO A 398 30.743 28.277 65.909 1.00 20.07 ATOM 2730 CD PRO A 398 29.657 27.204 66.034 1.00 19.69			28.857 29.018 64.614 1.00 19.15	С
ATOM 2730 CD PRO A 398 29.657 27.204 66.034 1.00 19.69				C
ATOM 2730 CD PRO A 398 29.657 27.204 66.034 1.00 19.69 C			30.743 28.277 65.909 1.00 20.07	С
ATOM 2733 C PRO A 398 29.167 29.251 63.119 1.00 18.91 C				С
	ATOM	2733 C PRO A 398	29.167 29.251 63.119 1.00 18.91	C

ATOM	2734 O PRO A 398	28.857 30.307 62.568 1.00 17.18	Ο
ATOM		29.774 28.259 62.484 1.00 19.69	N
ATOM	2737 CA TYR A 399	30.012 28.289 61.040 1.00 19.26	С
ATOM	2739 CB TYR A 399	31.049 27.222 60.671 1.00 19.22	С
ATOM	2742 CG TYR A 399	32.415 27.587 61.189 1.00 18.15	C
ATOM	2743 CD1 TYR A 399	32.936 26.967 62.292 1.00 17.16	C
ATOM		34.165 27.340 62.790 1.00 19.02	С
ATOM	2747 CZ TYR A 399	34.894 28.332 62.166 1.00 18.35	С
ATOM	2748 OH TYR A 399	36.116 28.686 62.661 1.00 17.87	0
ATOM		34.388 28.977 61.073 1.00 18.04	C
ATOM		33.148 28.613 60.602 1.00 18.73	C
	2754 C TYR A 399	28.701 28.069 60.293 1.00 19.80	C
	2755 O TYR A 399	28.463 28.654 59.241 1.00 19.18	O
	2756 N VAL A 400	27.837 27.225 60.843 1.00 20.31	N
	2758 CA VAL A 400	26.541 27.011 60.241 1.00 20.60	C
	2760 CB VAL A 400	25.830 25.790 60.824 1.00 21.06	С
ATOM	2762 CG1 VAL A 400	24.389 25.645 60.234 1.00 21.52	C
ATOM		26.612 24.533 60.510 1.00 22.13	C
ATOM	2770 C VAL A 400	25.700 28.279 60.390 1.00 20.94	С
	2771 O VAL A 400	25.079 28.693 59.414 1.00 20.92	Ο
	2772 N GLU A 401	25.682 28.885 61.585 1.00 20.87	N
ATOM	2774 CA GLU A 401	24.985 30.170 61.810 1.00 21.54	C
ATOM	2776 CB GLU A 401	25.136 30.691 63.261 1.00 21.83	C
ATOM	2779 CG GLU A 401	24.475 29.824 64.338 1.00 25.56	C
ATOM	2782 CD GLU A 401	24.990 30.068 65.784 1.00 29.57	C
<b>ATOM</b>	2783 OE1 GLU A 401	25.925 30.868 65.976 1.00 31.30	O
ATOM	2784 OE2 GLU A 401	24.467 29.437 66.753 1.00 31.62	О
ATOM	2785 C GLU A 401	25.499 31.246 60.872 1.00 20.55	С
ATOM	2786 O GLU A 401	24.730 32.022 60.316 1.00 20.34	О
ATOM	2787 N ALA A 402	26.809 31.288 60.677 1.00 20.10	N
ATOM	2789 CA ALA A 402	27.407 32.335 59.848 1.00 19.57	С
ATOM	2791 CB ALA A 402	28.900 32.391 60.054 1.00 19.31	С
ATOM	2795 C ALA A 402	27.058 32.159 58.374 1.00 19.18	С
ATOM	2796 O ALA A 402		О
ATOM	2797 N LEU A 403	26.913 30.920 57.936 1.00 19.59	N
	2799 CA LEU A 403	26.528 30.647 56.568 1.00 20.27	C
	2801 CB LEU A 403	26.823 29.204 56.201 1.00 20.37	С
	2804 CG LEU A 403	26.459 28.814 54.774 1.00 21.69	С
	2806 CD1 LEU A 403	27.279 29.594 53.750 1.00 21.45	С
	2810 CD2 LEU A 403	26.646 27.298 54.582 1.00 24.93	C
ATOM	2814 C LEU A 403	25.052 30.962 56.353 1.00 20.94	С
	2815 O LEU A 403	24.664 31.443 55.290 1.00 21.36	О
	2816 N LEU A 404	24.234 30.697 57.362 1.00 21.38	N
	2818 CA LEU A 404	22.818 31.015 57.297 1.00 22.19	C
	2820 CB LEU A 404	22.133 30.528 58.566 1.00 22.76	C
	2823 CG LEU A 404	20.627 30.693 58.686 1.00 25.06	C
	2825 CD1 LEU A 404	19.934 30.227 57.408 1.00 27.19	C
ATOM	2829 CD2 LEU A 404	20.151 29.882 59.900 1.00 27.37	C

ATOM	2833 C LEU A 404	22.625 32.534 57.122 1.00 21.70	C
ATOM	2834 O LEU A 404	22.002 32.975 56.168 1.00 21.60	0
ATOM	2835 N SER A 405	23.195 33.319 58.031 1.00 21.30	N
ATOM	2837 CA SER A 405	23.169 34.778 57.943 1.00 20.95	С
ATOM	2839 CB SER A 405	23.898 35.380 59.123 1.00 21.13	С
ATOM	2842 OG SER A 405	23.248 34.989 60.299 1.00 23.32	О
ATOM		23.796 35.324 56.679 1.00 20.23	C
ATOM			Ο
	2846 N TYR A 406		N
ATOM	2848 CA TYR A 406		С
ATOM	2850 CB TYR A 406		C
ATOM	2853 CG TYR A 406		С
ATOM	2854 CD1 TYR A 406	28.569 36.203 53.766 1.00 17.11	С
ATOM			С
ATOM			С
ATOM			O
ATOM	2861 CE2 TVR A 406	28.182 35.116 51.282 1.00 14.49	C
	2863 CD2 TYR A 406		Ċ
ATOM	2865 C TYR A 406		C
ATOM	2866 O TYR A 406		Ö
	2867 N THR A 407	_	N
ATOM		23.150 33.680 52.531 1.00 21.34	Ċ
ATOM		22.887 32.191 52.342 1.00 20.99	č
ATOM			o
ATOM	2873 OG1 THR A 407		c
ATOM	2875 CG2 THR A 407		c
ATOM	2879 C THR A 407		0
ATOM	2880 O THR A 407		N
ATOM	2881 N ARG A 408		
ATOM	2883 CA ARG A 408	20.162 35.581 54.018 1.00 25.87	C
ATOM		19.713 35.615 55.484 1.00 26.81	C
ATOM		18.703 34.539 55.906 1.00 31.03	C
ATOM	2891 CD ARG A 408	18.843 34.084 57.386 1.00 36.58	C
ATOM	2894 NE ARG A 408	17.578 34.128 58.139 1.00 40.80	N
	2896 CZ ARG A 408		C
	2897 NH1 ARG A 408		N
ATOM	2900 NH2 ARG A 408		N
ATOM	2903 C ARG A 408	20.412 37.026 53.568 1.00 26.33	C
ATOM	2904 O ARG A 408	19.545 37.660 52.972 1.00 25.83	0
ATOM	2905 N ILE A 409	21.600 37.548 53.862 1.00 27.14	N
ATOM	2907 CA ILE A 409	21.931 38.933 53.524 1.00 27.95	C
	2909 CB ILE A 409	22.948 39.502 54.544 1.00 28.07	C
	2911 CG1 ILE A 409	22.378 39.380 55.969 1.00 28.89	С
	2914 CD1 ILE A 409	23.421 39.279 57.074 1.00 29.04	C
ATOM	2918 CG2 ILE A 409	23.287 40.965 54.207 1.00 27.74	С
ATOM	2922 C ILE A 409	22.435 39.106 52.069 1.00 28.50	C
ATOM	2923 O ILE A 409	22.057 40.064 51.386 1.00 27.67	O
ATOM	2924 N LYS A 410	23.261 38.167 51.608 1.00 29.16	N
ATOM	2926 CA LYS A 410	23.895 38.251 50.302 1.00 30.15	С

ATOM	2928 CB LYS A 410	25.247 37.506 50.311 1.00 30.82	С
ATOM	2931 CG LYS A 410	26.062 37.547 48.967 1.00 33.21	С
ATOM	2934 CD LYS A 410	26.430 36.112 48.413 1.00 35.52	C
ATOM	2937 CE LYS A 410		C
ATOM	2940 NZ LYS A 410	25.850 34.904 46.256 1.00 37.82	N
ATOM	2944 C LYS A 410	22.970 37.748 49.193 1.00 30.35	C
ATOM	2945 O LYS A 410		О
ATOM	2946 N ARG A 411	22.051 36.833 49.509 1.00 30.70	N
ATOM	2948 CA ARG A 411	21.067 36.362 48.517 1.00 31.19	C
ATOM	2950 CB ARG A 411	21.466 34.987 47.970 1.00 31.83	С
ATOM	2953 CG ARG A 411	22.694 34.988 47.043 1.00 35.36	C
ATOM	2956 CD ARG A 411	23.101 33.573 46.543 1.00 40.08	C
ATOM	2959 NE ARG A 411	23.290 33.462 45.081 1.00 42.67	N
ATOM	2961 CZ ARG A 411	22.310 33.545 44.163 1.00 43.67	С
<b>ATOM</b>	2962 NH1 ARG A 411	21.040 33.758 44.521 1.00 43.02	N
<b>ATOM</b>	2965 NH2 ARG A 411	22.609 33.417 42.869 1.00 43.56	N
ATOM	2968 C ARG A 411	19.656 36.304 49.105 1.00 30.61	С
<b>ATOM</b>	2969 O ARG A 411		О
	2970 N PRO A 412	19.063 37.461 49.349 1.00 30.71	N
		17.830 37.526 50.136 1.00 30.88	С
		17.654 39.027 50.371 1.00 30.84	С
ATOM	2976 CG PRO A 412	18.399 39.681 49.265 1.00 30.56	С
ATOM	2979 CD PRO A 412	19.507 38.787 48.886 1.00 30.44	С
ATOM	2982 C PRO A 412	16.590 36.922 49.444 1.00 31.46	С
ATOM	2983 O PRO A 412	15.656 36.514 50.154 1.00 31.62	О
ATOM	2984 N GLN A 413	16.586 36.855 48.109 1.00 31.46	N
		15.450 36.308 47.363 1.00 31.54	C
ATOM	2988 CB GLN A 413		С
ATOM	2991 CG GLN A 413		С
ATOM		12.697 38.121 46.787 1.00 33.94	С
ATOM		11.901 38.467 45.903 1.00 34.73	О
ATOM		12.315 37.478 47.885 1.00 34.89	N
		15.690 34.878 46.829 1.00 31.36	С
		14.913 34.383 46.013 1.00 31.27	О
		16.754 34.220 47.305 1.00 31.27	N
	3003 CA ASP A 414	16.985 32.786 47.074 1.00 30.71	. C
	3005 CB ASP A 414	18.280 32.560 46.309 1.00 31.02	С
	3008 CG ASP A 414	18.531 31.093 46.011 1.00 31.49	С
	3009 OD1 ASP A 414	17.565 30.318 45.914 1.00 30.43	О
	3010 OD2 ASP A 414	19.675 30.626 45.858 1.00 35.74	О
	3011 C ASP A 414	17.011 32.013 48.395 1.00 29.99	С
	3012 O ASP A 414	18.053 31.757 48.972 1.00 30.08	O
	3013 N GLN A 415	15.825 31.637 48.835 1.00 29.76	N
	3015 CA GLN A 415	15.558 30.998 50.121 1.00 29.41	C
	3017 CB GLN A 415	14.022 30.850 50.207 1.00 30.33	С
	3020 CG GLN A 415	13.436 30.284 51.497 1.00 33.12	C
	3023 CD GLN A 415		C
ATOM	3024 OE1 GLN A 415	11.336 30.617 52.650 1.00 40.03	O

ATOM	3025	NE2 GLN A 415	11.248 30.432 50.397 1.00 38.38	N
<b>ATOM</b>	3028	C GLN A 415	16.252 29.639 50.270 1.00 27.79	C
<b>ATOM</b>	3029	O GLN A 415	16.727 29.292 51.340 1.00 27.83	Ο
ATOM	3030	N LEU A 416	16.335 28.887 49.179 1.00 26.66	N
ATOM	3032	CA LEU A 416	16.873 27.521 49.191 1.00 25.86	C
ATOM	3034	CB LEU A 416	16.172 26.680 48.121 1.00 25.70	C
ATOM	3037	CG LEU A 416	14.650 26.622 48.262 1.00 25.24	C
ATOM	3039	CD1 LEU A 416	14.069 25.860 47.119 1.00 24.23	C
ATOM	3043	CD2 LEU A 416	14.276 25.986 49.577 1.00 25.64	C
ATOM	3047	C LEU A 416	18.381 27.417 48.970 1.00 25.39	C
ATOM	3048		18.920 26.315 48.870 1.00 25.50	Ο
ATOM	3049	N ARG A 417	19.040 28.562 48.846 1.00 24.30	N
ATOM	3051	CA ARG A 417	20.480 28.648 48.700 1.00 23.93	C
ATOM		CB ARG A 417	20.904 30.109 48.968 1.00 24.83	C
ATOM		CG ARG A 417	21.901 30.674 48.016 1.00 26.61	C
ATOM			23.170 29.934 47.979 1.00 29.59	C
ATOM			24.219 30.705 47.300 1.00 31.46	N
ATOM		CZ ARG A 417		С
ATOM		NH1 ARG A 417	23.923 29.718 45.218 1.00 31.64	N
ATOM		NH2 ARG A 417	25.561 31.297 45.560 1.00 35.09	N
ATOM		C ARG A 417	21.189 27.809 49.740 1.00 22.27	C
ATOM	3072		22.056 27.006 49.463 1.00 22.01	O
ATOM	3073		20.832 28.087 50.966 1.00 20.58	N
ATOM		CA PHE A 418	21.497 27.534 52.085 1.00 20.58	С
ATOM			20.929 28.221 53.334 1.00 20.56	С
ATOM	3080	CG PHE A 418	21.459 27.688 54.603 1.00 21.90	C
ATOM	3081	CD1 PHE A 418	22.804 27.730 54.866 1.00 22.80	C
ATOM	3083	CE1 PHE A 418	23.301 27.249 56.078 1.00 24.14	C
ATOM	3085	CZ PHE A 418	22.445 26.710 57.020 1.00 22.87	C
ATOM	3087	<b>CE2 PHE A 418</b>	21.104 26.667 56.766 1.00 24.34	С
ATOM	3089	CD2 PHE A 418	20.607 27.160 55.557 1.00 24.46	С
ATOM	3091	C PHE A 418	21.344 25.993 52.093 1.00 19.91	C
ATOM	3092	O PHE A 418	22.341 25.280 52.142 1.00 19.56	0
ATOM	3093	N PRO A 419	20.113 25.482 52.036 1.00 18.94	N
ATOM	3094	CA PRO A 419	19.937 24.034 51.997 1.00 18.75	C
<b>ATOM</b>	3096	CB PRO A 419	18.399 23.841 52.040 1.00 18.34	C
<b>ATOM</b>	3099	CG PRO A 419	17.805 25.158 51.682 1.00 18.39	С
ATOM	3102	CD PRO A 419	18.813 26.194 52.076 1.00 18.47	C
ATOM	3105	C PRO A 419	20.570 23.371 50.779 1.00 18.68	C
ATOM	3106	O PRO A 419	21.038 22.275 50.925 1.00 17.29	Ο
<b>ATOM</b>	3107	N ARG A 420	20.604 24.001 49.618 1.00 19.60	N
ATOM	3109	CA ARG A 420	21.293 23.391 48.482 1.00 20.80	С
<b>ATOM</b>	3111	CB ARG A 420	21.115 24.220 47.208 1.00 21.78	C
		CG ARG A 420	19.738 24.126 46.596 1.00 23.43	С
		CD ARG A 420	19.688 24.371 45.091 1.00 27.38	C
		NE ARG A 420	18.507 25.153 44.721 1.00 28.41	N
-		CZ ARG A 420	18.369 26.451 44.979 1.00 30.57	С
ATOM	3123	NH1 ARG A 420	19.334 27.127 45.584 1.00 31.62	N

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ATOM	3126	NH2 ARG A 420	17.267 27.088 44.623 1.00 32.90	N
ATOM	3129	C ARG A 420		С
ATOM	3130	O ARG A 420	23.384 22.202 48.436 1.00 21.37	· 0
ATOM	3131	N MET A 421	23.359 24.179 49.502 1.00 21.52	N
ATOM	3133	CA MET A 421	24.789 24.086 49.848 1.00 21.36	C
ATOM	3135	CB MET A 421	25.274 25.382 50.493 1.00 21.17	С
ATOM	3138	CG MET A 421	25.343 26.476 49.534 1.00 23.46	С
ATOM	3141	SD MET A 421	25.907 27.975 50.266 1.00 26.15	S
ATOM	3142	CE MET A 421	27.451 27.516 51.009 1.00 26.23	С
ATOM	3146	C MET A 421	25.065 22.927 50.794 1.00 20.75	С
ATOM	3147	O MET A 421	25.982 22.134 50.582 1.00 18.82	О
ATOM	3148	N LEU A 422	24.303 22.882 51.878 1.00 21.18	N
			24.394 21.749 52.801 1.00 21.92	C
ATOM	3152	CB LEU A 422	23.453 21.908 54.002 1.00 21.86	С
ATOM	3155	CG LEU A 422	23.727 23.166 54.819 1.00 23.07	С
ATOM	3157	CD1 LEU A 422	22.756 23.247 55.989 1.00 24.63	C
ATOM	3161	CD2 LEU A 422	25.168 23.226 55.326 1.00 25.26	С
ATOM	3165	C LEU A 422	24.156 20.430 52.081 1.00 21.25	C
		O LEU A 422	24.808 19.472 52.403 1.00 22.05	О
			23.308 20.382 51.066 1.00 21.30	N
ATOM	3169	CA MET A 423	23.081 19.119 50.330 1.00 22.24	С
			21.931 19.232 49.313 1.00 23.34	С
			20.567 19.696 49.843 1.00 28.24	C
			19.535 18.438 50.632 1.00 35.70	S
ATOM	3178	CE MET A 423	20.458 18.220 52.061 1.00 33.45	С
ATOM	3182	C MET A 423	24.301 18.610 49.558 1.00 21.01	С
		O MET A 423	24.358 17.438 49.194 1.00 21.62	О
		N LYS A 424	25.233 19.496 49.238 1.00 18.97	N
		CA LYS A 424	26.509 19.095 48.662 1.00 17.89	С
			27.290 20.310 48.155 1.00 17.59	C
			26.594 21.018 46.988 1.00 18.56	С
			26.467 20.113 45.762 1.00 19.26	С
			25.693 20.769 44.631 1.00 20.40	С
			25.020 19.777 43.751 1.00 21.19	N
		C LYS A 424	27.372 18.290 49.622 1.00 16.82	С
		O LYS A 424	28.179 17.473 49.186 1.00 16.71	0
ATOM		N LEU A 425	27.217 18.529 50.923 1.00 15.99	N
ATOM		CA LEU A 425	27.866 17.722 51.925 1.00 15.25	C
ATOM		CB LEU A 425	27.639 18.323 53.316 1.00 15.87	С
		CG LEU A 425	28.185 19.728 53.664 1.00 16.61	C
		CD1 LEU A 425	27.714 20.115 55.047 1.00 17.81	C
		CD2 LEU A 425	29.689 19.777 53.638 1.00 17.71	С
		C LEU A 425	27.367 16.266 51.846 1.00 15.24	С
ATOM		O LEU A 425	28.117 15.346 52.119 1.00 15.24	0
ATOM		N VAL A 426	26.103 16.064 51.470 1.00 14.71	N
ATOM		CA VAL A 426	25.576 14.726 51.249 1.00 14.48	C
ATOM		CB VAL A 426	24.041 14.703 50.975 1.00 13.91	С
ATOM	3231	CG1 VAL A 426	23.580 13.309 50.838 1.00 13.11	C

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		05	
ATOM	3235 CG2 VAL A 426	23.228 15.408 52.101 1.00 14.22	С
<b>ATOM</b>	3239 C VAL A 426		С
ATOM	3240 O VAL A 426	26.597 12.852 50.171 1.00 14.93	0
	3241 N SER A 427	26.374 14.758 48.950 1.00 15.49	N
		27.035 14.272 47.736 1.00 15.56	С
ATOM	3245 CB SER A 427	27.087 15.387 46.694 1.00 15.86	С
		25.829 15.628 46.117 1.00 18.97	0
ATOM			С
ATOM		28.965 12.837 47.616 1.00 15.74	0
		29.163 14.730 48.806 1.00 15.28	N
ATOM	3254 CA LEILA 428	30.518 14.463 49.183 1.00 16.34	С
		31.104 15.660 49.935 1.00 16.46	Č
ATOM	3250 CG I FII A 428	31.367 16.893 49.096 1.00 16.94	Č
ATOM	3261 CD1   FILA 428	31.746 18.004 50.036 1.00 19.53	Ċ
ATOM	2265 CD2 LEU A 428	32.479 16.617 48.078 1.00 16.50	Č
	3269 C LEU A 428		c
	3270 O LEU A 428		Ö
ATOM		29.754 12.872 50.916 1.00 17.30	N
ATOM		29.880 11.617 51.670 1.00 17.91	C
ATOM	32/3 CA ARG A 429	28.730 11.374 52.612 1.00 18.11	C
		28.861 11.936 53.873 1.00 19.58	C
			C
ATOM		30.164 11.661 54.641 1.00 21.53	N
		30.184 12.737 55.630 1.00 21.34	C
		29.809 12.585 56.872 1.00 19.67	
	3287 NH1 ARG A 429		N
ATOM	3290 NH2 ARG A 429		N
ATOM	3293 C ARG A 429		C
ATOM	3294 O ARG A 429		0
ATOM	3295 N THR A 430		N
ATOM		28.948 9.365 48.810 1.00 17.28	C
ATOM		27.691 9.495 47.972 1.00 16.89	С
ATOM		26.552 9.207 48.793 1.00 16.44	0
ATOM		27.647 8.457 46.895 1.00 16.72	C
	3307 C THR A 430	30.216 9.384 47.921 1.00 17.34	С
	3308 O THR A 430	30.728 8.343 47.576 1.00 18.01	0
	3309 N LEU A 431	30.718 10.550 47.541 1.00 17.45	N
<b>ATOM</b>	<del></del>	31.968 10.598 46.758 1.00 17.22	C
<b>ATOM</b>	3313 CB LEU A 431	32.272 12.015 46.336 1.00 16.74	С
<b>ATOM</b>	3316 CG LEU A 431	31.800 12.552 44.966 1.00 16.62	С
<b>ATOM</b>	3318 CD1 LEU A 431	31.263 11.522 44.010 1.00 15.12	C
	3322 CD2 LEU A 431	30.838 13.686 45.134 1.00 14.98	С
ATOM	3326 C LEU A 431	33.159 10.006 47.554 1.00 17.29	С
	3327 O LEU A 431	34.049 9.402 47.004 1.00 16.51	O
	3328 N SER A 432	33.108 10.131 48.863 1.00 17.72	N
	3330 CA SER A 432	34.080 9.531 49.726 1.00 18.63	C
	3332 CB SER A 432	33.796 9.946 51.149 1.00 18.84	Č
	3335 OG SER A 432		Ö
	3337 C SER A 432	34.113 8.013 49.691 1.00 19.34	C
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35.207 7.421 49.779 1.00 20.24 0 ATOM 3338 O SER A 432 N 32.933 7.383 49.648 1.00 19.33 ATOM 3339 N SER A 433 32.830 5.935 49.475 1.00 19.25 C ATOM 3341 CA SER A 433 C ATOM 3343 CB SER A 433 31.380 5.457 49.606 1.00 19.52 30.864 5.761 50.876 1.00 23.43 0 ATOM 3346 OG SER A 433 33.315 5.497 48.112 1.00 18.21 C ATOM 3348 C SER A 433 33.955 4.449 47.984 1.00 18.98 0 ATOM 3349 O SER A 433 32.938 6.245 47.088 1.00 17.26 N ATOM 3350 N VALA 434 33.393 5.976 45.732 1.00 17.49 C ATOM 3352 CA VAL A 434 32.777 6.997 44.757 1.00 17.59 ATOM 3354 CB VAL A 434 33.461 6.954 43.419 1.00 17.34  $\mathbf{C}$ ATOM 3356 CG1 VAL A 434 31.222 6.725 44.582 1.00 17.82 C ATOM 3360 CG2 VAL A 434 34.947 5.981 45.668 1.00 17.71 C ATOM 3364 C VAL A 434 35.566 5.123 45.023 1.00 17.05 ATOM 3365 O VAL A 434 0 35.548 6.927 46.376 1.00 17.43 N ATOM 3366 N HIS A 435 C ATOM 3368 CA HIS A 435 36.977 7.015 46.504 1.00 18.66 37.352 8.325 47.193 1.00 18.49  $\mathbf{C}$ ATOM 3370 CB HIS A 435 C 38.785 8.406 47.609 1.00 18.52 ATOM 3373 CG HIS A 435 39.163 8.437 48.933 1.00 16.02 N ATOM 3374 ND1 HIS A 435 40.478 8.526 49.004 1.00 17.34 C ATOM 3376 CE1 HIS A 435 N 40.968 8.542 47.775 1.00 16.72 ATOM 3378 NE2 HIS A 435 39.930 8.488 46.882 1.00 17.51 C ATOM 3380 CD2 HIS A 435 37.608 5.813 47.245 1.00 19.59 C ATOM 3382 C HIS A 435 ATOM 3383 O HIS A 435 38.643 5.325 46.816 1.00 19.38 0 37.001 5.349 48.339 1.00 20.61 N ATOM 3384 N SER A 436 37,480 4.150 49.021 1.00 21.50 C ATOM 3386 CA SER A 436 36.635 3.807 50.249 1.00 21.87 C ATOM 3388 CB SER A 436 36.836 4.754 51.285 1.00 24.47 ATOM 3391 OG SER A 436 0 37.444 2.984 48.060 1.00 21.81 C ATOM 3393 C SER A 436 38.369 2.164 48.064 1.00 22.13 0 ATOM 3394 O SER A 436 ATOM 3395 N GLU A 437 36.402 2.909 47.225 1.00 21.73 N 36.338 1.831 46.229 1.00 22.18 C ATOM 3397 CA GLU A 437 34.969 1.748 45.500 1.00 22.15  $\mathbf{C}$ ATOM 3399 CB GLU A 437 33.758 1.448 46.410 1.00 24.83  $\mathbf{C}$ ATOM 3402 CG GLU A 437 32.416 2.022 45.883 1.00 27.98 C ATOM 3405 CD GLU A 437 ATOM 3406 OE1 GLU A 437 31.628 2.616 46.692 1.00 29.68 0 32.143 1.887 44.661 1.00 27.41 0 ATOM 3407 OE2 GLU A 437 37.484 1.970 45.215 1.00 21.66 ATOM 3408 C GLU A 437 C 38.007 0.954 44.753 1.00 21.07 0 ATOM 3409 O GLU A 437 37.872 3.205 44.870 1.00 21.22 N ATOM 3410 N GLN A 438 ATOM 3412 CA GLN A 438 38.960 3.418 43.898 1.00 21.53 C C ATOM 3414 CB GLN A 438 38.925 4.838 43.308 1.00 21.92 C ATOM 3417 CG GLN A 438 40.182 5.303 42.532 1.00 22.14 C ATOM 3420 CD GLN A 438 40.414 4.542 41.242 1.00 22.72 39.994 4.978 40.162 1.00 22.48 ATOM 3421 OE1 GLN A 438 0 ATOM 3422 NE2 GLN A 438 41.103 3.411 41.344 1.00 21.67 N ATOM 3425 C GLN A 438 40.309 3.088 44.552 1.00 21.78 C ATOM 3426 O GLN A 438 41.221 2.624 43.892 1.00 21.15 0

ATOM	3427 N VAL A 439	40.406 3.287 45.863 1.00 22.24	N
		41.626 2.983 46.581 1.00 22.93	C
ATOM	<del>-</del>	41.617 3.590 47.995 1.00 22.83	C
ATOM		42.726 2.982 48.850 1.00 22.44	C
ATOM	3437 CG2 VAL A 439	41.782 5.070 47.915 1.00 23.07	С
ATOM	3441 C VAL A 439	41.797 1.472 46.662 1.00 23.19	C
<b>ATOM</b>	3442 O VAL A 439	42.904 0.957 46.531 1.00 23.61	О
ATOM	3443 N PHE A 440	40.686 0.782 46.887 1.00 23.59	N
ATOM	3445 CA PHE A 440	40.632 -0.679 46.948 1.00 23.72	C
ATOM	3447 CB PHE A 440	39.216 -1.108 47.359 1.00 23.83	C
<b>ATOM</b>	3450 CG PHE A 440	39.072 -2.575 47.643 1.00 26.10	C
ATOM		39.203 -3.059 48.944 1.00 27.31	C
<b>ATOM</b>	3453 CE1 PHE A 440	39.080 -4.425 49.208 1.00 28.42	C
<b>ATOM</b>	3455 CZ PHE A 440	38.812 -5.337 48.155 1.00 28.49	С
ATOM	3457 CE2 PHE A 440	38.676 -4.863 46.855 1.00 27.80	С
ATOM	<del>-</del>	38.798 -3.482 46.603 1.00 27.54	С
ATOM		41.031 -1.261 45.592 1.00 23.41	C
<b>ATOM</b>	<del>-</del>	41.835 -2.175 45.534 1.00 23.32	O
<b>ATOM</b>	5 105 11 11-11	40.503 -0.700 44.507 1.00 23.68	N
<b>ATOM</b>	3465 CA ALA A 441	40.850 -1.132 43.144 1.00 24.12	С
<b>ATOM</b>	3467 CB ALA A 441	39.945 -0.475 42.110 1.00 23.79	С
<b>ATOM</b>	3471 C ALA A 441		C
ATOM	3472 O ALA A 441	42.830 -1.583 41.875 1.00 24.76	О
ATOM	3473 N LEU A 442	42.985 0.062 43.408 1.00 25.88	N
ATOM	3475 CA LEU A 442	44.424 0.258 43.232 1.00 26.68	C
<b>ATOM</b>	3477 CB LEU A 442	44.873 1.619 43.763 1.00 26.33	С
<b>ATOM</b>		44.327 2.844 43.037 1.00 26.21	C
<b>ATOM</b>	3482 CD1 LEU A 442	44.704 4.101 43.802 1.00 25.44	C
<b>ATOM</b>	3486 CD2 LEU A 442	44.812 2.906 41.604 1.00 25.65	С
<b>ATOM</b>	3490 C LEU A 442	45.206 -0.852 43.922 1.00 27.53	C
ATOM	3491 O LEU A 442	46.138 -1.376 43.354 1.00 27.92	О
<b>ATOM</b>	3492 N ARG A 443	44.801 -1.200 45.139 1.00 29.13	N
<b>ATOM</b>	3494 CA ARG A 443	45.410 -2.278 45.937 1.00 30.54	С
ATOM	3496 CB ARG A 443	44.631 -2.482 47.251 1.00 31.28	С
<b>ATOM</b>	3499 CG ARG A 443	45.319 -1.941 48.495 1.00 34.06	C
ATOM	3502 CD ARG A 443	46.103 -3.002 49.305 1.00 37.28	С
ATOM	3505 NE ARG A 443	45.886 -2.830 50.750 1.00 39.82	N
<b>ATOM</b>	3507 CZ ARG A 443	45.823 -3.816 51.652 1.00 41.09	С
<b>ATOM</b>	3508 NH1 ARG A 443	45.961 -5.094 51.303 1.00 40.52	N
ATOM	3511 NH2 ARG A 443	45.610 -3.505 52.932 1.00 42.23	N
ATOM	3514 C ARG A 443	45.489 -3.617 45.211 1.00 30.54	С
ATOM	3515 O ARG A 443	46.546 -4.267 45.211 1.00 30.72	О
ATOM	3516 N LEU A 444	44.389 -4.038 44.596 1.00 30.38	N
ATOM	3518 CA LEU A 444	44.412 -5.305 43.840 1.00 30.47	С
ATOM	3520 CB LEU A 444	43.007 -5.927 43.708 1.00 30.45	С
	3523 CG LEU A 444	41.844 -5.080 43.182 1.00 30.54	С
	3525 CD1 LEU A 444	41.765 -5.168 41.674 1.00 30.70	C
ATOM	3529 CD2 LEU A 444	40.541 -5.535 43.811 1.00 31.11	С

ATOM	3533 C LEU A 444	45.100 -5.161 42.472 1.00 30.14	C
ATOM			Ο
ATOM	3535 N GLN A 445	45.160 -3.937 41.941 1.00 29.84	N
ATOM	3537 CA GLN A 445	45.814 -3.652 40.651 1.00 29.80	С
ATOM	3539 CB GLN A 445	45.078 -2.484 39.986 1.00 30.05	C
ATOM	3542 CG GLN A 445	45.441 -2.111 38.547 1.00 30.96	C
	3545 CD GLN A 445	44.927 -0.707 38.194 1.00 33.36	C
ATOM	3546 OE1 GLN A 445	45.652 0.115 37.613 1.00 35.36	О
ATOM	3547 NE2 GLN A 445	43.686 -0.426 38.575 1.00 33.42	N
	3550 C GLN A 445	47.331 -3.356 40.801 1.00 29.48	C
ATOM		47.991 -2.911 39.847 1.00 29.37	Ο
ATOM	3552 N ASP A 446	47.883 -3.632 41.988 1.00 28.99	N
ATOM	3554 CA ASP A 446	49.315 -3.451 42.273 1.00 28.52	C
ATOM	3556 CB ASP A 446	50.162 -4.386 41.389 1.00 28.74	С
	3559 CG ASP A 446	50.582 -5.653 42.115 1.00 30.00	C
ATOM	3560 OD1 ASP A 446	51.055 -5.551 43.270 1.00 31.05	О
ATOM	3561 OD2 ASP A 446	50.473 -6.794 41.603 1.00 31.36	О
	3562 C ASP A 446		C
ATOM	3563 O ASP A 446	50.983 -1.755 41.850 1.00 27.27	O
ATOM	3564 N LYS A 447	48.896 -1.035 42.317 1.00 25.97	N
ATOM	3566 CA LYS A 447	49.236 0.379 42.194 1.00 25.34	С
ATOM	3568 CB LYS A 447	48.236 1.112 41.308 1.00 25.56	С
ATOM	3571 CG LYS A 447	48.791 1.476 39.941 1.00 27.42	С
ATOM	3574 CD LYS A 447	47.937 2.541 39.234 1.00 29.14	С
	3577 CE LYS A 447	48.324 2.703 37.756 1.00 29.77	C
ATOM	3580 NZ LYS A 447	49.794 2.489 37.525 1.00 29.95	N
	3584 C LYS A 447	49.281 1.012 43.574 1.00 24.20	C
ATOM	3585 O LYS A 447	48.264 1.073 44.273 1.00 24.40	O
ATOM	3586 N LYS A 448	50.465 1.479 43.961 1.00 22.65	N
ATOM	3588 CA LYS A 448	50.708 1.963 45.322 1.00 21.68	С
ATOM	3590 CB LYS A 448	52.132 1.609 45.769 1.00 22.05	С
	3593 CG LYS A 448	52.363 0.108 45.985 1.00 23.85	С
	3596 CD LYS A 448	51.620 -0.402 47.242 1.00 25.90	С
ATOM	3599 CE LYS A 448	51.029 -1.793 47.032 1.00 27.29	С
ATOM	3602 NZ LYS A 448	52.111 -2.843 46.988 1.00 27.04	N
ATOM	3606 C LYS A 448	50.500 3.469 45.466 1.00 19.63	C
ATOM	3607 O LYS A 448	50.992 4.256 44.662 1.00 19.17	Ο
ATOM	3608 N LEU A 449	49.763 3.857 46.499 1.00 17.42	N
ATOM	3610 CA LEU A 449	49.747 5.246 46.931 1.00 16.08	С
ATOM	3612 CB LEU A 449	48.709 5.470 48.016 1.00 15.80	С
ATOM	3615 CG LEU A 449	47.276 5.187 47.620 1.00 15.59	С
ATOM	3617 CD1 LEU A 449	46.393 5.462 48.794 1.00 15.93	С
ATOM	3621 CD2 LEU A 449	46.889 6.042 46.441 1.00 16.59	С
ATOM	3625 C LEU A 449	51.119 5.609 47.497 1.00 14.86	С
ATOM	3626 O LEU A 449	51.716 4.819 48.213 1.00 14.21	0
ATOM	3627 N PRO A 450	51.602 6.815 47.207 1.00 13.64	N
ATOM	3628 CA PRO A 450	52.857 7.287 47.801 1.00 12.45	С
ATOM	3630 CB PRO A 450	53.097 8.619 47.106 1.00 12.02	C

ATOM	3633 CG PRO A 450	51.794 9.075 46.715 1.00 12.24	C
ATOM	3636 CD PRO A 450	50.968 7.849 46.361 1.00 13.38	C
ATOM	3639 C PRO A 450	52.651 7.451 49.305 1.00 11.44	С
ATOM	3640 O PRO A 450	51.523 7.579 49.705 1.00 10.71	О
ATOM	3641 N PRO A 451	53.691 7.370 50.114 1.00 11.43	N
<b>ATOM</b>	3642 CA PRO A 451	53.554 7.354 51.579 1.00 11.97	C
ATOM	3644 CB PRO A 451	55.004 7.498 52.056 1.00 11.99	C
ATOM	3647 CG PRO A 451	55.826 6.908 50.950 1.00 11.22	C
ATOM	3650 CD PRO A 451	55.096 7.221 49.693 1.00 11.32	С
ATOM	3653 C PRO A 451	52.663 8.432 52.220 1.00 13.16	С
ATOM	3654 O PRO A 451	51.988 8.113 53.182 1.00 14.07	О
ATOM	3655 N LEU A 452	52.639 9.662 51.726 1.00 13.81	N
ATOM	3657 CA LEU A 452	51.818 10.694 52.366 1.00 14.82	C
ATOM	3659 CB LEU A 452	52.222 12.127 51.935 1.00 14.59	С
ATOM	3662 CG LEU A 452	53.581 12.577 52.524 1.00 13.96	С
ATOM	3664 CD1 LEU A 452	54.136 13.827 51.798 1.00 12.67	C
ATOM	3668 CD2 LEU A 452	53.460 12.812 54.022 1.00 12.97	С
ATOM	3672 C LEU A 452	50.339 10.461 52.119 1.00 15.67	С
ATOM	3673 O LEUA 452	49.526 10.735 52.981 1.00 16.33	О
ATOM	3674 N LEUA 453	49.980 9.984 50.940 1.00 16.51	N
ATOM	3676 CA LEU A 453	48.589 9.584 50.700 1.00 16.83	C
ATOM	3678 CB LEU A 453	48.316 9.473 49.200 1.00 16.80	C
ATOM	3681 CG LEU A 453	48.492 10.799 48.488 1.00 16.52	C
ATOM		48.178 10.622 47.008 1.00 15.48	С
ATOM		47.607 11.881 49.149 1.00 15.08	C
ATOM		48.255 8.252 51.383 1.00 16.93	С
ATOM	3692 O LEUA 453	47.164 8.076 51.892 1.00 15.52	O
ATOM	3693 N SER A 454	49.218 7.338 51.433 1.00 17.80	N
ATOM	3695 CA SER A 454	48.998 6.054 52.085 1.00 18.57	C
ATOM	3697 CB SER A 454	50.234 5.177 52.002 1.00 18.79	C
ATOM	3700 OG SER A 454	50.044 3.985 52.760 1.00 21.39	О
ATOM	3702 C SER A 454	48.583 6.204 53.539 1.00 18.91	C
ATOM	3703 O SER A 454		О
ATOM		49.181 7.165 54.252 1.00 19.47	N
ATOM	3706 CA GLU A 455	48.911 7.434 55.674 1.00 20.61	С
ATOM	3708 CB GLU A 455	49.792 8.600 56.226 1.00 20.80	С
ATOM	3711 CG GLU A 455	51.133 8.200 56.856 1.00 22.89	С
ATOM	3714 CD GLU A 455	52.067 9.397 57.206 1.00 24.58	С
ATOM	3715 OE1 GLU A 455		О
ATOM	3716 OE2 GLU A 455		O
ATOM	3717 C GLU A 455	47.455 7.813 55.869 1.00 21.13	С
ATOM	3718 O GLU A 455	46.915 7.648 56.942 1.00 20.97	О
ATOM	3719 N ILE A 456	46.842 8.380 54.842 1.00 22.30	N
ATOM		45.468 8.851 54.948 1.00 23.36	<b>C</b> ,
ATOM		45.211 10.156 54.107 1.00 23.51	С
ATOM		46.271 11.223 54.348 1.00 24.04	С
ATOM	3728 CD1 ILE A 456	46.137 12.411 53.377 1.00 24.87	С
ATOM	3732 CG2 ILE A 456	43.862 10.788 54.457 1.00 23.80	С

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ATOM	3736	C ILE A 456	44.460 7.772 54.552 1.00 23.95	C
ATOM	3737		43.472 7.588 55.255 1.00 24.60	Ο
ATOM		N TRP A 457	44.715 7.054 53.460 1.00 24.49	N
ATOM		CA TRP A 457	43.686 6.274 52.788 1.00 25.10	С
ATOM		<b>CB TRP A 457</b>	43.581 6.757 51.352 1.00 24.61	C
		CG TRP A 457	43.172 8.173 51.286 1.00 24.27	C
ATOM		CD1 TRP A 457	42.382 8.843 52.173 1.00 23.43	С
ATOM		NE1 TRP A 457	42.225 10.146 51.774 1.00 23.31	N
ATOM		CE2 TRP A 457	42.909 10.339 50.607 1.00 23.37	С
			43.513 9.113 50.268 1.00 24.59	C
		CE3 TRP A 457	44.274 9.046 49.096 1.00 25.78	С
			44.408 10.189 48.323 1.00 26.73	С
		CH2 TRP A 457	43.796 11.396 48.698 1.00 24.85	С
ATOM	3758	CZ2 TRP A 457	43.053 11.489 49.833 1.00 24.21	С
ATOM		C TRP A 457	43.811 4.752 52.805 1.00 26.89	C
ATOM	3761		42.804 4.056 52.578 1.00 26.84	Ο
ATOM		N ASP A 458	45.011 4.216 53.039 1.00 28.36	N
ATOM		CA ASP A 458	45.153 2.759 53.106 1.00 29.97	C
ATOM		CB ASP A 458	46.605 2.290 52.851 1.00 29.50	С
		CG ASP A 458	47.037 2.432 51.388 1.00 28.75	C
		OD1 ASP A 458	46.194 2.287 50.471 1.00 25.80	О
		OD2 ASP A 458	48.218 2.709 51.066 1.00 28.62	О
ATOM		C ASP A 458	44.668 2.262 54.471 1.00 31.78	C
		O ASP A 458	44.698 3.026 55.444 1.00 31.76	О
ATOM		N VAL A 459	44.229 0.994 54.538 1.00 33.72	N
		CA VAL A 459	43.925 0.350 55.829 1.00 35.18	С
		CB VAL A 459	42.776 -0.738 55.764 1.00 35.47	С
ATOM	3780	CG1 VAL A 459	41.402 -0.065 55.696 1.00 36.37	C
ATOM		CG2 VAL A 459		С
		C VAL A 459	45.207 -0.240 56.430 1.00 36.19	C
ATOM		O VAL A 459	46.053 -0.769 55.701 1.00 36.50	O
ATOM		N ALA A 460	45.338 -0.119 57.759 1.00 37.07	N
ATOM	3792	CA ALA A 460	46.520 -0.567 58.513 1.00 37.34	C
ATOM	3794	CB ALA A 460	46.663 -2.107 58.448 1.00 37.39	С
ATOM	3798	C ALA A 460	47.805 0.130 58.048 1.00 37.43	C
		O ALA A 460	47.797 1.331 57.735 1.00 38.01	О
ATOM	3800	O37 GW3 A 500	45.928 22.483 41.966 1.00 29.37	О
ATOM	3801	C35 GW3 A 500	46.006 22.922 43.117 1.00 27.82	C
ATOM	3802	O36 GW3 A 500	46.154 24.137 43.352 1.00 30.11	О
ATOM	3803	C34 GW3 A 500	45.991 22.048 44.336 1.00 25.98	C
ATOM	3806	C32 GW3 A 500	45.090 20.843 44.120 1.00 24.26	C
ATOM	3807	C33 GW3 A 500	45.577 19.636 43.605 1.00 22.94	C
ATOM	3809	C31 GW3 A 500	43.729 20.985 44.385 1.00 22.24	C
		C30 GW3 A 500	42.848 19.935 44.145 1.00 23.11	C
		C29 GW3 A 500	43.333 18.734 43.634 1.00 22.63	C
ATOM	3815	C28 GW3 A 500	44.691 18.592 43.361 1.00 23.34	C
		O27 GW3 A 500		0
ATOM	3817	C26 GW3 A 500	44.617 16.843 41.708 1.00 24.90	С

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ATOM	3820 C25 GW3 A 500	44.920 15.377 41.703 1.00 24.64	С
	3823 C17 GW3 A 500	44.100 14.679 40.630 1.00 24.72	С
ATOM	3826 N09 GW3 A 500	43.591 13.396 41.119 1.00 23.09	N
ATOM	3827 C16 GW3 A 500	44.504 12.521 41.826 1.00 27.47	С
ATOM	3830 C18 GW3 A 500	43.883 11.827 42.999 1.00 32.67	С
ATOM	3831 C19 GW3 A 500	44.086 10.381 43.132 1.00 37.17	C
	3832 CL4 GW3 A 500	45.046 9.500 41.913 1.00 48.91	CL
	3833 C23 GW3 A 500	43.138 12.498 43.950 1.00 33.22	С
ATOM	3835 C22 GW3 A 500	42.580 11.795 45.015 1.00 34.93	С
ATOM	3837 C21 GW3 A 500	42.742 10.415 45.175 1.00 37.10	C
ATOM	3839 C20 GW3 A 500	43.479 9.662 44.266 1.00 39.44	C
ATOM	3840 C39 GW3 A 500	43.672 8.164 44.368 1.00 41.02	С
ATOM	3841 F41 GW3 A 500	43.097 7.617 43.292 1.00 40.05	F
	3842 F40 GW3 A 500	43.146 7.681 45.481 1.00 42.09	F
	3843 F42 GW3 A 500	44.958 7.854 44.374 1.00 42.72	F
	3844 C08 GW3 A 500	42.341 12.851 40.595 1.00 20.89	C
	3847 C07 GW3 A 500	41.159 13.837 40.585 1.00 18.51	C
ATOM	3849 C01 GW3 A 500	40.117 13.455 39.587 1.00 17.88	C
ATOM	3850 C02 GW3 A 500	39.839 12.122 39.259 1.00 17.60	С
ATOM	3852 C03 GW3 A 500	38.864 11.795 38.318 1.00 17.52	C
ATOM	3854 C04 GW3 A 500	38.142 12.800 37.693 1.00 16.64	C
ATOM	3856 C05 GW3 A 500	38.428 14.125 37.997 1.00 17.54	C
ATOM	3858 C06 GW3 A 500	39.393 14.461 38.949 1.00 16.25	C
ATOM	3860 C10 GW3 A 500	40.562 13.938 41.935 1.00 18.44	C
ATOM	3861 C11 GW3 A 500	40.530 15.163 42.570 1.00 17.75	C
ATOM	3863 C12 GW3 A 500	39.978 15.260 43.843 1.00 19.18	C
ATOM	3865 C13 GW3 A 500	39.457 14.147 44.489 1.00 18.83	С
ATOM	3867 C14 GW3 A 500	39.502 12.905 43.858 1.00 19.46	С
ATOM	3869 C15 GW3 A 500	40,038 12.811 42.572 1.00 19.27	C
	3871 O4 IOH A 501	41.801 25.834 49.973 1.00 47.81	Ο
	3873 C2 IOH A 501	42.137 25.218 51.196 1.00 45.49	С
	3875 C3 IOH A 501	40.900 24.618 51.845 1.00 46.17	С
ATOM	3879 C1 IOH A 501	43.140 24.140 50.870 1.00 45.25	С
	3883 N LEUB 220	1.952 28.417 56.409 1.00 20.12	N
ATOM	3885 CA LEU B 220	2.004 27.365 55.326 1.00 20.40	С
ATOM	3887 CB LEU B 220	1.870 25.949 55.891 1.00 20.67	С
ATOM	3890 CG LEU B 220	2.969 25.326 56.771 1.00 22.03	С
	3892 CD1 LEU B 220	2.525 23.974 57.322 1.00 22.13	C
	3896 CD2 LEU B 220	4.275 25.170 56.045 1.00 22.68	C
	3900 C LEU B 220	0.888 27.586 54.308 1.00 19.67	С
	3901 O LEUB 220	-0.198 27.978 54.679 1.00 19.18	O
	3904 N THR B 221	1.161 27.322 53.035 1.00 19.13	N
ATOM	3906 CA THR B 221	0.118 27.358 52.008 1.00 18.93	C
ATOM	3908 CB THR B 221	0.721 27.418 50.597 1.00 19.02	Č
ATOM		1.595 26.293 50.362 1.00 15.73	Ō
ATOM		1.623 28.643 50.447 1.00 19.21	Č
	3916 C THR B 221	-0.784 26.126 52.103 1.00 19.37	C
ATOM		-0.438 25.144 52.736 1.00 19.29	ŏ
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<b>ATOM</b>	3918 N ALA B 222	-1.940 26.185 51.461 1.00 19.97	N
ATOM	3920 CA ALA B 222	-2.853 25.055 51.450 1.00 20.36	С
ATOM	3922 CB ALA B 222	-4.114 25.374 50.664 1.00 20.25	C
ATOM	3926 C ALA B 222	-2.142 23.870 50.844 1.00 20.59	С
ATOM	3927 O ALA B 222	-2.277 22.766 51.330 1.00 20.50	0
ATOM	3928 N ALA B 223	-1.358 24.128 49.803 1.00 20.84	N
<b>ATOM</b>	3930 CA ALA B 223		С
ATOM	3932 CB ALA B 223		С
<b>ATOM</b>	3936 C ALA B 223		C
<b>ATOM</b>	3937 O ALA B 223		Ο
<b>ATOM</b>		1.112 23.153 50.717 1.00 20.73	N
		2.102 22.585 51.614 1.00 20.66	C
ATOM	3942 CB GLN B 224	2.996 23.683 52.217 1.00 20.60	C
ATOM	3945 CG GLN B 224	3.888 24.368 51.165 1.00 21.61	C
ATOM	3948 CD GLN B 224	4.685 25.571 51.698 1.00 20.35	С
	3949 OE1 GLN B 224	4.233 26.288 52.592 1.00 20.73	Ο
<b>ATOM</b>		5.874 25.774 51.147 1.00 18.48	N
ATOM	3953 C GLN B 224	1.424 21.766 52.709 1.00 20.54	C
<b>ATOM</b>	3954 O GLN B 224	1.925 20.722 53.076 1.00 20.39	O
	3955 N GLUB 225		N
ATOM	3957 CA GLU B 225	-0.474 21.489 54.209 1.00 21.68	С
ATOM	3959 CB GLU B 225	-1.603 22.355 54.810 1.00 22.26	С
ATOM	3962 CG GLU B 225	-1.091 23.506 55.700 1.00 24.57	С
			C '
ATOM	3966 OE1 GLU B 225	-3.390 24.145 56.006 1.00 30.04	O
ATOM	3967 OE2 GLU B 225	-1.856 25.452 56.894 1.00 32.32	O
ATOM	3968 C GLU B 225	-1.021 20.178 53.568 1.00 21.44	С
ATOM	3969 O GLUB 225	-0.821 19.102 54.102 1.00 21.30	O
ATOM	•	-1.645 20.268 52.398 1.00 21.09	N
ATOM	3972 CA LEU B 226	-2.087 19.082 51.680 1.00 21.40	C
ATOM	3974 CB LEU B 226		C
ATOM	3977 CG LEU B 226	-3.452 18.233 49.725 1.00 21.69	С
ATOM	3979 CD1 LEU B 226	-4.473 17.665 50.726 1.00 20.99	С
ATOM	3983 CD2 LEU B 226	-4.165 18.624 48.450 1.00 23.12	C
ATOM	3987 C LEUB 226	-0.966 18.076 51.485 1.00 21.71	С
	3988 O LEUB 226	-1.132 16.897 51.756 1.00 22.24	Ο
	3989 N MET B 227	0.177 18.564 51.031 1.00 21.92	N
	3991 CA MET B 227	1.344 17.740 50.806 1.00 22.54	С
	3993 CB MET B 227	2.477 18.599 50.227 1.00 23.18	С
		3.889 18.099 50.497 1.00 27.64	С
ATOM	3999 SD MET B 227	5.252 19.110 49.731 1.00 35.04	S
	4000 CE MET B 227	4.355 20.407 48.801 1.00 35.00	С
	4004 C MET B 227	1.775 16.978 52.062 1.00 21.43	C
	4005 O MET B 227	2.044 15.787 52.001 1.00 20.48	О
	4006 N ILE B 228	1.837 17.667 53.197 1.00 21.11	N
	4008 CA ILE B 228	2.226 17.033 54.454 1.00 20.70	C
ATOM	4010 CB ILE B 228	2.454 18.094 55.552 1.00 20.51	С
ATOM	4012 CG1 ILE B 228	3.753 18.863 55.279 1.00 21.99	С

ATOM	4015 CD1 ILE B 228	3.752 20.289 55.826 1.00 21.87	C
ATOM	4019 CG2 ILE B 228	2.541 17.450 56.925 1.00 19.69	C
ATOM	4023 C ILE B 228	1.155 16.000 54.882 1.00 20.68	C
ATOM	4024 O ILE B 228	1.489 14.904 55.320 1.00 20.06	Ο
ATOM	4025 N GLN B 229	-0.120 16.359 54.753 1.00 20.09	N
ATOM	4027 CA GLN B 229	-1.194 15.446 55.120 1.00 20.97	C
ATOM	4029 CB GLN B 229	-2.574 16.126 54.993 1.00 20.90	C
ATOM	4032 CG GLN B 229	-2.829 17.199 56.034 1.00 22.03	С
ATOM	4035 CD GLN B 229	-3.907 18.235 55.593 1.00 27.82	C
ATOM	4036 OE1 GLN B 229	-4.472 18.124 54.487 1.00 32.18	0
ATOM	4037 NE2 GLN B 229	-4.176 19.235 56.444 1.00 24.45	N
ATOM	4040 C GLN B 229	-1.126 14.146 54.299 1.00 20.36	С
ATOM	4041 O GLN B 229	-1.277 13.080 54.870 1.00 20.51	Ο
ATOM	4042 N GLN B 230	-0.836 14.247 52.998 1.00 19.95	N
ATOM	4044 CA GLN B 230	-0.678 13.092 52.094 1.00 19.76	C
ATOM	4046 CB GLN B 230	-0.423 13.577 50.638 1.00 19.71	С
ATOM	4049 CG GLN B 230	-1.657 14.211 49.988 1.00 20.96	С
ATOM	4052 CD GLN B 230	-1.489 14.710 48.537 1.00 24.54	C
ATOM	4053 OE1 GLN B 230	-2.232 14.269 47.640 1.00 28.47	O
ATOM	4054 NE2 GLN B 230	-0.596 15.686 48.323 1.00 23.65	N
ATOM	4057 C GLN B 230	0.439 12.125 52.530 1.00 19.30	C
ATOM	4058 O GLN B 230	0.288 10.889 52.504 1.00 19.78	Ο
ATOM	4059 N LEUB 231	1.562 12.691 52.926 1.00 18.21	N
ATOM	4061 CA LEU B 231	2.728 11.909 53.291 1.00 17.41	С
ATOM	4063 CB LEU B 231	3.978 12.788 53.441 1.00 16.81	C
ATOM	4066 CG LEU B 231	4.473 13.501 52.207 1.00 15.74	С
ATOM	4068 CD1 LEU B 231	5.667 14.324 52.595 1.00 16.14	С
ATOM	4072 CD2 LEU B 231	4.849 12.533 51.189 1.00 17.07	C
<b>ATOM</b>	4076 C LEU B 231	2.491 11.257 54.610 1.00 17.15	С
ATOM	4077 O LEU B 231	2.894 10.119 54.802 1.00 16.91	Ο
ATOM	4078 N VAL B 232	1.890 12.003 55.531 1.00 16.61	N
<b>ATOM</b>	4080 CA VAL B 232	1.615 11.498 56.860 1.00 16.91	C
ATOM	4082 CB VAL B 232	1.132 12.631 57.800 1.00 16.52	C
ATOM	4084 CG1 VAL B 232	0.611 12.073 59.141 1.00 15.82	C
ATOM	4088 CG2 VAL B 232	2.270 13.587 58.082 1.00 17.23	C
ATOM	4092 C VALB 232	0.579 10.348 56.799 1.00 17.56	C
ATOM	4093 O VAL B 232	0.771 9.307 57.429 1.00 17.67	O
ATOM	4094 N ALA B 233	-0.505 10.557 56.048 1.00 17.49	N
<b>ATOM</b>	4096 CA ALA B 233	-1.572 9.562 55.883 1.00 17.46	C
<b>ATOM</b>	4098 CB ALA B 233	-2.721 10.162 55.063 1.00 16.78	С
ATOM	4102 C ALA B 233	-1.045 8.277 55.203 1.00 18.02	C
ATOM	4103 O ALA B 233	-1.456 7.197 55.546 1.00 18.54	О
ATOM	4104 N ALA B 234	-0.128 8.412 54.251 1.00 18.75	N
ATOM	4106 CA ALA B 234	0.418 7.274 53.515 1.00 19.67	С
ATOM	4108 CB ALA B 234	1.181 7.751 52.301 1.00 19.31	С
	4112 C ALA B 234	1.348 6.486 54.439 1.00 20.55	C
ATOM	4113 O ALA B 234	1.357 5.267 54.472 1.00 22.00	Ο
ATOM	4114 N GLN B 235	2.096 7.204 55.225 1.00 21.28	N

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ATOM	4116 CA GLN B 235	2.897 6.606 56.244 1.00 22.64	С
	4118 CB GLN B 235	3.687 7.686 56.962 1.00 23.12	С
	4121 CG GLN B 235	4.873 7.175 57.721 1.00 26.16	C
	4124 CD GLN B 235	6.154 7.982 57.483 1.00 27.08	C
		6.198 9.190 57.778 1.00 25.27	Ο
		7.225 7.288 57.050 1.00 25.11	N
	4129 C GLN B 235	2.029 5.838 57.215 1.00 23.05	С
	4130 O GLN B 235	2.374 4.719 57.590 1.00 23.98	0
	4131 N LEUB 236	0.886 6.400 57.590 1.00 22.82	N
	4133 CA LEU B 236	0.026 5.735 58.538 1.00 23.20	С
	4135 CB LEU B 236	-1.076 6.680 59.060 1.00 23.47	С
	4138 CG LEU B 236	-1.770 6.162 60.325 1.00 24.46	C
ATOM	4140 CD1 I FU B 236	-0.990 6.692 61.552 1.00 25.96	C
ATOM	4144 CD2 I FILB 236	-3.250 6.563 60.375 1.00 24.55	Č
	4148 C LEU B 236	-0.597 4.450 57.954 1.00 22.92	C
	4149 O LEU B 236	-0.760 3.489 58.692 1.00 22.71	Ō
ATOM		-0.947 4.434 56.666 1.00 22.75	N
ATOM		-1.416 3.199 56.016 1.00 23.39	C
ATOM	4154 CB GLN B 237		C
ATOM		-3.182 3.902 54.251 1.00 25.91	C
ATOM		-3.594 3.668 52.779 1.00 28.07	Č
		-2.728 3.480 51.913 1.00 31.17	O
	4162 NE2 GLN B 237		N
ATOM		-0.301 2.154 56.082 1.00 23.26	C
ATOM	4166 O GLN B 237	-0.547 0.993 56.381 1.00 22.61	Ō
ATOM	4167 N CYS B 238	0.936 2.576 55.819 1.00 23.37	N
		2.079 1.666 55.937 1.00 23.62	C
	· · · · · · · · · · · · · · · · · · ·	3.377 2.350 55.486 1.00 23.38	Č
		3.308 2.714 53.694 1.00 26.27	S
	4175 C CYS B 238		Č
	4176 O CYS B 238	2.440 -0.130 57.474 1.00 22.84	Ō
	4177 N ASN B 239	1.959 1.856 58.402 1.00 23.18	N
	4179 CA ASN B 239	2.044 1.368 59.776 1.00 23.64	C
		1.873 2.490 60.821 1.00 23.36	Č
	4184 CG ASN B 239	2.940 3.576 60.740 1.00 23.70	Č
	4185 OD1 ASN B 239	4.021 3.372 60.189 1.00 26.52	0
	4186 ND2 ASN B 239	2.632 4.745 61.293 1.00 18.94	N
	4189 C ASN B 239	0.948 0.334 60.019 1.00 24.56	C
	4190 O ASN B 239	1.210 -0.709 60.599 1.00 24.51	Ö
	4191 N LYS B 240	-0.281 0.633 59.593 1.00 25.29	N
	4193 CA LYS B 240	-1.400 -0.308 59.742 1.00 26.55	C
	4195 CB LYS B 240	-2.705 0.280 59.158 1.00 27.30	Č
	4198 CG LYS B 240	-3.245 1.536 59.894 1.00 29.04	Č
		-4.709 1.862 59.503 1.00 32.61	Č
	4204 CE LYS B 240	-4.870 2.417 58.053 1.00 34.49	č
		-4.339 3.837 57.829 1.00 34.32	N
	4211 C LYS B 240	-1.090 -1.680 59.104 1.00 26.09	Ċ
	4211 C L13 B 240 4212 O LYS B 240	-1.430 -2.707 59.653 1.00 26.05	ŏ
VI OM	,212 0 2102210	20.20 2.707 37.033 2.00 20.03	~

ATOM	4213 N ARG B 241	-0.396 -1.681 57.975 1.00 26.26	N
	4215 CA ARG B 241		С
	4217 CB ARG B 241		С
	4220 CG ARG B 241		C
	4223 CD ARG B 241		C
	4226 NE ARG B 241		N
		3.592 -5.301 53.511 1.00 43.64	С
	4229 NH1 ARG B 24		N
	4232 NH2 ARG B 24		N
	4235 C ARG B 241		С
	4236 O ARG B 241		O
ATOM	4237 N SER B 242		N
		2.947 -3.599 59.646 1.00 24.42	С
	4241 CB SER B 242		C
	4244 OG SER B 242		O
	4246 C SER B 242		С
	4247 O SER B 242		Ο
	4248 N PHE B 243		N
	4250 CA PHE B 243		С
	4252 CB PHE B 243		С
ATOM	4255 CG PHE B 243		С
		-0.953 -0.824 63.854 1.00 28.25	С
	4258 CE1 PHE B 243		C
	4260 CZ PHE B 243		С
	4262 CE2 PHE B 243		C
ATOM		1.312 -1.580 63.654 1.00 27.96	С
	4266 C PHE B 243		С
	4267 O PHE B 243		O
ATOM	4268 N SER B 244		N
ATOM		-1.553 -6.548 60.280 1.00 26.24	С
		-2.224 -6.123 58.967 1.00 26.59	C
		-3.539 -5.700 59.225 1.00 28.45	Ō
	4277 C SER B 244		C
	4278 O SER B 244		Ö
ATOM	4279 N ASP B 245	0.593 -7.498 59.658 1.00 24.75	Ň
	4281 CA ASP B 245	1.488 -8.568 59.255 1.00 24.52	C
	4283 CB ASP B 245	2.363 -8.103 58.062 1.00 24.71	Č
	4286 CG ASP B 245	1.541 -7.759 56.829 1.00 25.49	Č
	4287 OD1 ASP B 245		Ö
	4288 OD2 ASP B 245		Ö
ATOM		2.371 -9.044 60.410 1.00 23.74	C
	4290 O ASP B 245	3.103 -10.035 60.246 1.00 23.57	0
ATOM		2.321 -8.354 61.560 1.00 22.64	N
	4293 CA GLN B 246		C
	4295 CB GLN B 246		Č
ATOM	4298 CG GLN B 246		C
	4301 CD GLN B 246		Č
	4302 OE1 GLN B 246		o
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			_

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ATOM	4303 NE2 GLN B 246	3.123 -7.972 67.550 1.00 18.09	N
ATOM	4306 C GLN B 246	2.759 -10.257 63.072 1.00 22.12	C
ATOM	4307 O GLN B 246	3.675 -11.022 63.322 1.00 22.39	Ο
ATOM	4308 N PROB 247	1.480 -10.653 63.073 1.00 22.38	N
ATOM	4309 CA PROB 247	1.110 -12.056 63.298 1.00 22.33	C
ATOM	4311 CB PROB 247	-0.421 -12.017 63.286 1.00 22.35	С
ATOM	4314 CG PROB 247	-0.801 -10.623 63.451 1.00 22.68	С
ATOM	4317 CD PROB 247	0.283 -9.814 62.878 1.00 22.40	C
ATOM	©0 C PRO B 247	1.582 -13.077 62.254 1.00 22.55	С
ATOM	4321 O PROB 247	1.449 -14.277 62.506 1.00 22.98	O
ATOM	4322 N LYS B 248	2.061 -12.626 61.103 1.00 23.24	N
ATOM	4324 CA LYS B 248	2.555 -13.502 60.031 1.00 23.63	C
ATOM	4326 CB LYS B 248	2.325 -12.814 58.674 1.00 24.19	С
	4329 CG LYS B 248	0.825 -12.666 58.302 1.00 25.17	С
	4332 CD LYS B 248	0.664 -12.261 56.816 1.00 27.89	C
	4335 CE LYS B 248	-0.704 -11.655 56.518 1.00 29.11	С
ATOM	4338 NZ LYS B 248	-0.874 -10.310 57.134 1.00 29.48	N
ATOM	4342 C LYS B 248	4.044 -13.869 60.171 1.00 23.57	C
ATOM	4343 O LYS B 248	4.521 -14.818 59.538 1.00 22.55	O
ATOM	4344 N VAL B 249	4.766 -13.095 60.996 1.00 24.05	N
ATOM	4346 CA VALB 249	6.222 -13.193 61.132 1.00 23.94	С
ATOM	4348 CB VAL B 249	6.834 -11.902 61.761 1.00 24.05	С
	4350 CG1 VAL B 249	8.364 -12.060 62.013 1.00 23.37	С
	4354 CG2 VAL B 249	6.554 -10.705 60.878 1.00 23.82	C
ATOM	4358 C VALB 249	6.572 -14.385 62.003 1.00 24.33	C
ATOM	4359 O VAL B 249	5.925 -14.623 63.033 1.00 24.36	O
ATOM	4360 N THR B 250	7.584 -15.135 61.555 1.00 24.50	N
ATOM	4362 CA THR B 250	8.104 -16.291 62.274 1.00 24.40	C
ATOM	4364 CB THR B 250	9.238 -16.936 61.466 1.00 24.53	C
	4366 OG1 THR B 250	8.783 -17.193 60.132 1.00 25.59	О
ATOM	4368 CG2 THR B 250	9.596 -18.319 62.011 1.00 23.78	C
ATOM	4372 C THR B 250	8.635 -15.806 63.616 1.00 24.13	C
ATOM	4373 O THR B 250	9.579 -15.004 63.650 1.00 23.96	О
ATOM		8.027 -16.266 64.712 1.00 23.65	N
ATOM	4375 CA PRO B 251	8.389 -15.781 66.054 1.00 23.24	С
ATOM	4377 CB PRO B 251	7.638 -16.744 66.998 1.00 23.24	С
	4380 CG PRO B 251	6.496 -17.284 66.199 1.00 23.40	C
	4383 CD PROB 251	6.946 -17.275 64.765 1.00 23.90	С
	4386 C PROB 251	9.889 -15.829 66.350 1.00 22.61	C
	4387 O PROB 251	10.600 -16.720 65.874 1.00 22.38	Ο
	4388 N TRP B 252	10.347 -14.866 67.135 1.00 22.13	N
ATOM		11.705 -14.860 67.651 1.00 22.14	C
ATOM	4392 CB TRP B 252	11.899 -13.608 68.505 1.00 21.80	С
	4395 CG TRP B 252	13.280 -13.365 69.064 1.00 19.35	С
	4396 CD1 TRP B 252	13.701 -13.617 70.338 1.00 16.85	C
	4398 NE1 TRP B 252	15.005 -13.221 70.495 1.00 14.85	N
	4400 CE2 TRP B 252	15.451 -12.683 69.319 1.00 14.93	С
ATOM	4401 CD2 TRP B 252	14.390 -12.753 68.395 1.00 16.95	С

ATOM	4402 CE3 TRP B 252	14.595 -12.244 67.100 1.00 16.75	C
ATOM	4404 CZ3 TRP B 252	15.838 -11.734 66.770 1.00 13.87	Ċ
ATOM	4406 CH2 TRP B 252	16.863 -11.685 67.712 1.00 13.95	С
ATOM	4408 CZ2 TRP B 252	16.692 -12.150 68.991 1.00 13.78	С
ATOM	4410 C TRP B 252	11.902 -16.099 68.503 1.00 23.31	С
ATOM	4411 O TRP B 252	10.997 -16.473 69.256 1.00 23.18	Ο
ATOM	4412 N PROB 253	13.053 -16.756 68.383 1.00 24.63	N
ATOM	4413 CA PRO B 253	13.362 -17.882 69.266 1.00 25.77	С
<b>ATOM</b>	4415 CB PRO B 253	14.642 -18.475 68.665 1.00 25.66	С
<b>ATOM</b>	4418 CG PRO B 253	15.268 -17.362 67.947 1.00 25.34	С
<b>ATOM</b>	4421 CD PRO B 253	14.138 -16.502 67.421 1.00 24.81	C
ATOM	4424 C PROB 253	13.591 -17.385 70.693 1.00 26.95	C
<b>ATOM</b>	4425 O PROB 253	14.543 -16.622 70.941 1.00 27.00	O
<b>ATOM</b>	4426 N LEUB 254	12.663 -17.746 71.581 1.00 28.19	N
<b>ATOM</b>	4428 CA LEU B 254	12.812 -17.553 73.013 1.00 29.17	С
ATOM	4430 CB LEUB 254	11.518 -17.075 73.660 1.00 29.19	С
ATOM	4433 CG LEU B 254	11.083 -15.687 73.198 1.00 30.29	С
ATOM	4435 CD1 LEU B 254	9.836 -15.774 72.315 1.00 30.93	С
ATOM	4439 CD2 LEU B 254	10.857 -14.748 74.388 1.00 31.32	С
<b>ATOM</b>	4443 C LEUB 254	13.120 -18.933 73.450 1.00 29.93	C
ATOM	4444 O LEUB 254	12.266 -19.616 74.003 1.00 30.33	О
ATOM	4445 N GLY B 255	14.323 -19.372 73.113 1.00 31.10	N
ATOM	4447 CA GLY B 255	14.742 -20.728 73.390 1.00 32.10	C
ATOM	4450 C GLY B 255	15.677 -20.662 74.568 1.00 33.02	С
ATOM	4451 O GLY B 255	16.004 -19.558 75.026 1.00 33.20	О
ATOM	4452 N ALAB 256	16.126 -21.821 75.052 1.00 33.82	N
ATOM	4454 CA ALA B 256	17.270 -21.843 75.961 1.00 34.52	С
	4456 CB ALA B 256	17.765 -23.266 76.194 1.00 34.47	С
ATOM	4460 C ALA B 256	18.410 -20.942 75.423 1.00 35.19	С
ATOM	4461 O ALA B 256	19.374 -20.677 76.153 1.00 35.52	О
ATOM	4462 N ASP B 257	18.295 -20.484 74.163 1.00 35.55	N
ATOM	4464 CA ASP B 257	19.240 -19.535 73.568 1.00 36.08	С
ATOM	4466 CB ASP B 257		C
ATOM		20.329 -17.281 74.251 1.00 36.27	С
	4470 OD1 ASP B 257	20.545 -16.443 73.345 1.00 35.49	0
	4471 OD2 ASP B 257	21.155 -17.350 75.190 1.00 36.08	0
	4472 C ASP B 257	20.634 -20.154 73.750 1.00 36.42	C
	4473 O ASP B 257	21.530 -19.540 74.339 1.00 36.88	O
	4474 N PROB 258	20.816 -21.387 73.252 1.00 36.48	N
	4475 CA PROB 258	21.956 -22.221 73.671 1.00 36.39	C
	4477 CB PRO B 258	21.489 -23.661 73.344 1.00 36.32	С
	4480 CG PROB 258	20.159 -23.524 72.607 1.00 36.44	C
	4483 CD PROB 258	20.002 -22.072 72.228 1.00 36.58	С
	4486 C PROB 258	23.279 -21.888 72.959 1.00 36.22	C
	4487 O PROB 258	24.207 -22.713 72.995 1.00 36.30	0
	4488 N GLN B 259	23.353 -20.699 72.348 1.00 35.91	N
	4490 CA GLN B 259	24.514 -20.251 71.572 1.00 35.69	C
ATOM	4492 CB GLN B 259	25.704 -19.958 72.490 1.00 35.83	С

ATOM	4495	CG GLN B 259	25.427 -18.774 73.430 1.00 36.12	C
		CD GLN B 259	25.495 -19.144 74.896 1.00 35.62	C
ATOM		OE1 GLN B 259	25.270 -20.297 75.275 1.00 35.62	0
ATOM		NE2 GLN B 259	25.799 -18.162 75.729 1.00 35.86	N
ATOM		C GLN B 259	24.842 -21.283 70.497 1.00 34.89	С
ATOM	4504		25.984 -21.750 70.364 1.00 35.10	O
ATOM		N SER B 260	23.791 -21.640 69.762 1.00 33.52	N
ATOM		CA SER B 260	23.855 -22.620 68.699 1.00 32.46	С
		CB SER B 260	22.708 -23.628 68.833 1.00 32.56	C
		OG SER B 260	21.448 -22.968 68.777 1.00 32.50	Ō
		C SER B 260	23.748 -21.883 67.374 1.00 31.34	C
ATOM		O SER B 260	23.240 -20.759 67.309 1.00 30.83	Ö
ATOM		N ALA B 261	24.237 -22.540 66.329 1.00 30.11	N
ATOM		CA ALA B 261	24.208 -22.016 64.972 1.00 29.32	C
ATOM		CB ALA B 261	25.044 -22.920 64.061 1.00 29.26	Č
ATOM		C ALA B 261	22.770 -21.897 64.443 1.00 28.44	C
ATOM		O ALA B 261	22.459 -21.018 63.645 1.00 28.46	Ö
		N ASP B 262	21.898 -22.778 64.918 1.00 27.37	N
ATOM		CA ASP B 262	20.532 -22.883 64.411 1.00 26.27	Ċ
		CB ASP B 262	19.888 -24.175 64.952 1.00 26.40	č
ATOM ATOM		CG ASP B 262	19.008 -24.859 63.934 1.00 27.38	Ċ
ATOM		OD1 ASP B 262	18.418 -24.150 63.085 1.00 29.79	Ö
		OD2 ASP B 262	18.851 -26.101 63.908 1.00 28.42	Ö
ATOM			19.673 -21.674 64.791 1.00 24.73	С
ATOM		C ASP B 262	18.939 -21.145 63.969 1.00 24.75	0
ATOM		O ASP B 262	19.774 -21.260 66.048 1.00 23.14	N
ATOM		N ALA B 263	18.944 -20.202 66.599 1.00 23.14	C
ATOM		CA ALA B 263		C
ATOM		CB ALA B 263	18.957 -20.275 68.119 1.00 22.02	C
ATOM		C ALA B 263	19.414 -18.823 66.125 1.00 21.47	0
ATOM	4547		18.620 -17.889 66.022 1.00 21.01	N
ATOM		N ARG B 264	20.709 -18.702 65.845 1.00 20.63	
ATOM		CA ARG B 264	21.258 -17.489 65.256 1.00 20.10	C
ATOM		CB ARG B 264	22.775 -17.604 65.155 1.00 20.12	С
		CG ARG B 264	23.494 -16.291 65.024 1.00 20.98	C C
ATOM		CD ARG B 264	24.813 -16.375 64.286 1.00 23.02	
		NE ARG B 264	25.699 -17.411 64.823 1.00 25.21	N
		CZ ARG B 264	26.969 -17.588 64.463 1.00 27.21	C
		NH1 ARG B 264	27.546 -16.798 63.559 1.00 29.00	N
		NH2 ARG B 264	27.673 -18.560 65.011 1.00 28.37	N
		C ARG B 264	20.650 -17.277 63.872 1.00 19.30	C
ATOM			20.258 -16.174 63.528 1.00 18.85	0
		N GLN B 265	20.575 -18.347 63.088 1.00 18.93	N
		CA GLN B 265	19.962 -18.292 61.753 1.00 18.74	C
		CB GLN B 265	20.125 -19.639 61.019 1.00 18.95	C
		CG GLN B 265	19.433 -19.732 59.638 1.00 20.26	C
ATOM		CD GLN B 265	19.893 -18.661 58.646 1.00 22.64	C
ATOM		OE1 GLN B 265	21.032 -18.702 58.167 1.00 25.12	0
ATOM	4584	NE2 GLN B 265	19.007 -17.709 58.329 1.00 22.08	N

ATOM	4587 C GLN B 265	18.488 -17.927 61.836 1.00 17.60	C
ATOM	4588 O GLN B 265	17.977 -17.266 60.955 1.00 16.14	Ο
ATOM	4589 N GLN B 266	17.824 -18.391 62.900 1.00 17.56	N
ATOM	4591 CA GLN B 266	16.400 -18.156 63.125 1.00 17.35	С
ATOM	4593 CB GLN B 266	15.840 -19.078 64.220 1.00 17.65	С
ATOM	4596 CG GLN B 266	14.968 -20.222 63.691 1.00 19.14	С
	4599 CD GLN B 266	14.811 -21.357 64.688 1.00 21.41	С
ATOM	4600 OE1 GLN B 266	14.589 -21.119 65.882 1.00 23.11	O
ATOM	4601 NE2 GLN B 266	14.943 -22.593 64.210 1.00 22.10	N
ATOM	4604 C GLN B 266	16.187 -16.694 63.471 1.00 16.86	C
ATOM	4605 O GLN B 266	15.277 -16.067 62.947 1.00 16.83	Ö
ATOM	4606 N ARG B 267	17.060 -16.129 64.297 1.00 16.43	N
	4608 CA ARG B 267	16.993 -14.688 64.582 1.00 16.37	C
	4610 CB ARG B 267	18.019 -14.294 65.636 1.00 16.42	Č
	4613 CG ARG B 267	17.745 -14.848 67.025 1.00 17.67	Č
	4616 CD ARG B 267	18.814 -14.433 68.007 1.00 19.76	Č
	4619 NE ARG B 267	18.716 -15.140 69.269 1.00 23.24	N
ATOM	4621 CZ ARG B 267	19.565 -16.072 69.689 1.00 24.98	C
ATOM	4622 NH1 ARG B 267		N
ATOM ATOM	4625 NH2 ARG B 267		N
	4628 C ARG B 267	17.199 -13.830 63.324 1.00 15.95	C
ATOM		16.438 -12.891 63.066 1.00 14.76	ŏ
ATOM	4629 O ARG B 267 4630 N PHE B 268	18.236 -14.169 62.554 1.00 15.75	N
ATOM		18.576 -13.453 61.332 1.00 15.52	C
ATOM	4632 CA PHE B 268	19.848 -14.018 60.714 1.00 15.76	Č
ATOM	4634 CB PHE B 268	20.221 -13.377 59.413 1.00 18.35	C
ATOM	4637 CG PHE B 268	20.871 -12.145 59.387 1.00 20.04	C
ATOM	4638 CD1 PHE B 268	21.209 -11.558 58.182 1.00 19.94	C
ATOM			C
	4642 CZ PHE B 268	20.886 -12.196 56.979 1.00 20.77	C
	4644 CE2 PHE B 268	20.242 -13.402 56.991 1.00 20.76	C
	4646 CD2 PHE B 268	19.904 -13.994 58.202 1.00 20.40	
ATOM	4648 C PHE B 268	17.426 -13.531 60.349 1.00 14.78	C
ATOM	4649 O PHE B 268	17.014 -12.527 59.817 1.00 15.24	O N
ATOM	4650 N ALA B 269		N
ATOM		15.734 -14.913 59.251 1.00 13.87	C
	4654 CB ALA B 269	15.363 -16.406 59.185 1.00 13.62	C
	4658 C ALA B 269	14.525 -14.089 59.692 1.00 13.39	C
	4659 O ALA B 269	13.875 -13.476 58.866 1.00 13.14	0
	4660 N HIS B 270	14.231 -14.088 60.992 1.00 13.45	N
	4662 CA HIS B 270	13.147 -13.280 61.567 1.00 13.97	C
ATOM		13.043 -13.562 63.081 1.00 14.07	C
ATOM		12.230 -12.560 63.854 1.00 15.14	C
	4668 ND1 HIS B 270	10.972 -12.842 64.354 1.00 17.36	N
ATOM		10.509 -11.792 65.010 1.00 15.22	C
ATOM		11.426 -10.842 64.962 1.00 16.27	N
ATOM		12.517 -11.302 64.262 1.00 14.66	C
	4676 C HIS B 270	13.371 -11.766 61.258 1.00 14.16	C
ATOM	4677 O HIS B 270	12.450 -11.036 60.865 1.00 13.52	О

ATOM	4678	N PHE B 271	14.606 -11.312 61.398 1.00 14.37	N
			14.938 -9.950 61.014 1.00 15.70	С
ATOM	4682	CB PHE B 271	16.350 -9.577 61.477 1.00 15.92	C
ATOM	4685	CG PHE B 271	16.438 -9.153 62.936 1.00 17.25	C
ATOM	4686	CD1 PHE B 271	15.458 -8.373 63.527 1.00 18.99	С
ATOM	4688	CE1 PHE B 271	15.570 -7.977 64.852 1.00 18.97	С
ATOM		CZ PHE B 271	16.657 -8.352 65.600 1.00 18.58	С
ATOM	4692	CE2 PHE B 271	17.632 -9.115 65.030 1.00 19.00	C
ATOM	4694	CD2 PHE B 271	17.520 -9.517 63.700 1.00 18.47	C
ATOM	4696	C PHE B 271	14.783 -9.695 59.505 1.00 16.17	С
ATOM			14.345 -8.598 59.103 1.00 16.51	Ο
<b>ATOM</b>	4698	N THR B 272	15.112 -10.679 58.662 1.00 15.92	N
ATOM	4700	CA THR B 272	15.001 -10.440 57.229 1.00 15.60	C
ATOM	4702	CB THR B 272	15.661 -11.557 56.360 1.00 15.19	C
ATOM	4704	OG1 THR B 272	15.064 -12.828 56.621 1.00 15.06	O
ATOM	4706	CG2 THR B 272	17.137 -11.762 56.702 1.00 14.81	C
ATOM	4710	C THR B 272		C
ATOM	4711	O THR B 272	13.219 -9.511 55.943 1.00 16.04	O
<b>ATOM</b>		N GLUB 273		N
ATOM			11.168 -10.707 57.389 1.00 16.91	С
ATOM	4716	CB GLU B 273	10.392 -11.783 58.155 1.00 17.59	C
ATOM			10.741 -13.200 57.716 1.00 19.28	C
ATOM			9.899 -14.259 58.396 1.00 22.41	С
<b>ATOM</b>			10.308 -15.457 58.416 1.00 22.79	Ο
ATOM	4724	OE2 GLU B 273	8.823 -13.892 58.916 1.00 25.21	О
ATOM		C GLU B 273		C
ATOM	4726	O GLU B 273	9.854 -8.736 57.001 1.00 17.36	O
ATOM		N LEUB 274		N
ATOM			10.823 -7.373 59.181 1.00 17.80	С
			11.429 -6.921 60.502 1.00 17.99	C
			10.954 -7.596 61.795 1.00 19.69	С
ATOM			11.232 -6.739 63.002 1.00 18.59	C
ATOM			9.485 -8.001 61.738 1.00 21.65	С
			11.330 -6.488 58.052 1.00 17.31	C
		O LEU B 274		O
		N ALA B 275		N
		CA ALA B 275	13.124 -5.906 56.467 1.00 17.61	C
		CB ALA B 275	14.604 -6.314 56.187 1.00 17.30	C
		C ALA B 275		C
		O ALA B 275	12.125 -5.025 54.507 1.00 16.75	0
		N ILEB 276	11.826 -7.213 54.911 1.00 17.43	N
		CA ILEB 276	11.006 -7.449 53.737 1.00 17.71	C
		CB ILE B 276	10.719 -8.928 53.574 1.00 17.62	C
			11.942 -9.601 52.945 1.00 18.32	C
			11.872 -11.116 52.939 1.00 18.55	C
		CG2 ILE B 276	9.473 -9.168 52.682 1.00 16.70	С
-		C ILE B 276	9.721 -6.663 53.873 1.00 18.56	C
ATOM	4774	O ILE B 276	9.284 -6.018 52.911 1.00 19.96	О

ATOM	4775	N ILE B 277	9.119 -6.696 55.058 1.00 18.40	N
ATOM		CA ILE B 277	7.925 -5.909 55.283 1.00 18.33	C
ATOM		CB ILE B 277	7.373 -6.111 56.683 1.00 18.46	C
ATOM		CG1 ILE B 277	6.690 -7.475 56.763 1.00 19.14	C
ATOM		CD1 ILE B 277	6.360 -7.874 58.165 1.00 20.33	C
ATOM		CG2 ILE B 277	6.358 -5.040 57.058 1.00 17.80	C
ATOM		C ILE B 277	8.207 -4.447 55.013 1.00 18.33	C
ATOM			7.402 -3.795 54.374 1.00 18.06	O
ATOM		N SER B 278	9.332 -3.920 55.494 1.00 18.03	N
ATOM		CA SER B 278	9.593 -2.492 55.342 1.00 18.30	С
ATOM		CB SER B 278	10.753 -2.052 56.225 1.00 18.70	C
ATOM		OG SER B 278	10.934 -0.637 56.159 1.00 18.72	Ō
ATOM		C SER B 278	9.911 -2.168 53.879 1.00 18.90	C
ATOM		O SER B 278	9.466 -1.177 53.357 1.00 19.41	Ō
ATOM		N VAL B 279	10.680 -3.012 53.206 1.00 19.42	N
ATOM		CA VALB 279		C
			12.030 -3.732 51.247 1.00 19.75	Č
ATOM			12.083 -3.671 49.709 1.00 17.20	C
ATOM		CG2 VAL B 279		Ċ
ATOM		C VAL B 279	9.728 -2.646 50.988 1.00 20.32	c
ATOM			9.595 -1.771 50.172 1.00 20.05	ŏ
ATOM		O VAL B 279		N
ATOM		N GLN B 280	7.540 -3.519 50.447 1.00 21.20	C
ATOM		CA GLN B 280	6.728 -4.769 50.683 1.00 22.34	C
ATOM		CB GLN B 280		C
ATOM		CG GLN B 280	7.296 -5.958 49.972 1.00 25.42	C
ATOM		CD GLN B 280	6.595 -7.256 50.299 1.00 28.38	
ATOM		OE1 GLN B 280	5.971 -7.390 51.352 1.00 29.60	0
ATOM		NE2 GLN B 280	6.699 -8.227 49.387 1.00 29.80	N
ATOM		C GLN B 280	6.717 -2.270 50.765 1.00 22.09	C
ATOM			6.164 -1.671 49.849 1.00 22.73	0
ATOM			6.651 -1.856 52.034 1.00 21.59	N
ATOM		= :	5.911 -0.637 52.394 1.00 21.72	C
		CB GLU B 281	5.853 -0.428 53.910 1.00 21.87	C
		CG GLUB 281		C
ATOM		CD GLUB 281	5.202 -1.371 56.171 1.00 21.71	C
ATOM		OE1 GLU B 281	5.975 -0.509 56.668 1.00 17.81	0
ATOM		OE2 GLU B 281	4.529 -2.164 56.865 1.00 19.03	0
ATOM		C GLÚ B 281	6.531 0.603 51.745 1.00 21.36	C
ATOM			5.816 1.473 51.300 1.00 20.72	О
ATOM			7.860 0.669 51.696 1.00 21.78	N
ATOM		CA ILE B 282	8.579 1.799 51.062 1.00 22.00	С
ATOM		CB ILE B 282	10.080 1.695 51.321 1.00 21.32	С
ATOM	4859	CG1 ILE B 282	10.371 2.117 52.750 1.00 21.12	C
ATOM		CD1 ILE B 282	11.700 1.678 53.247 1.00 22.57	С
ATOM		CG2 ILE B 282	10.872 2.584 50.387 1.00 21.98	C
ATOM	4870		8.268 1.956 49.556 1.00 22.01	С
ATOM		O ILE B 282	8.086 3.063 49.090 1.00 21.16	0
ATOM	4872	N VAL B 283	8.220 0.843 48.829 1.00 22.96	N

	02	
ATOM 4874 CA VAL B 283	7.785 0.790 47.429 1.00 23.47	C
ATOM 4876 CB VAL B 283	7.700 -0.694 46.911 1.00 24.31	C
	6.896 -0.801 45.603 1.00 23.97	C
ATOM 4882 CG2 VAL B 283	9.083 -1.331 46.734 1.00 24.06	
ATOM 4886 C VALB 283	6.390 1.409 47.316 1.00 23.71	C
ATOM 4887 O VAL B 283	6.188 2.338 46.552 1.00 24.05	O
ATOM 4888 N ASP B 284	5.429 0.919 48.096 1.00 23.71	N
ATOM 4890 CA ASP B 284	4.066 1.492 48.091 1.00 23.80	C
ATOM 4892 CB ASP B 284	3.112 0.675 48.960 1.00 24.45	C
ATOM 4895 CG ASP B 284	2.905 -0.718 48.428 1.00 26.79	C
ATOM 4896 OD1 ASP B 284	2.521 -1.580 49.242 1.00 32.73	O
ATOM 4897 OD2 ASP B 284	3.115 -1.036 47.237 1.00 26.84	O
ATOM 4898 C ASP B 284		C
ATOM 4899 O ASP B 284		Ο
ATOM 4900 N PHE B 285	4.699 3.276 49.611 1.00 21.83	N
ATOM 4902 CA PHE B 285	4.708 4.665 50.043 1.00 21.89	C
ATOM 4904 CB PHE B 285	5.583 4.818 51.275 1.00 21.24	С
ATOM 4907 CG PHE B 285	5.789 6.228 51.707 1.00 20.61	С
ATOM 4908 CD1 PHE B 285	4.854 6.870 52.493 1.00 20.19	С
ATOM 4910 CE1 PHE B 285	5.056 8.153 52.915 1.00 18.83	С
ATOM 4912 CZ PHE B 285	6.207 8.810 52.548 1.00 19.67	С
ATOM 4914 CE2 PHE B 285	7.155 8.168 51.776 1.00 18.93	С
ATOM 4916 CD2 PHE B 285	6.949 6.894 51.379 1.00 20.46	С
ATOM 4918 C PHE B 285		С
ATOM 4919 O PHE B 285		O
ATOM 4920 N ALA B 286	6.185 5.202 48.163 1.00 22.60	N
ATOM 4922 CA ALA B 286	6.797 6.117 47.195 1.00 23.49	С
ATOM 4924 CB ALA B 286	8.104 5.573 46.675 1.00 23.96	С
ATOM 4928 C ALA B 286		С
ATOM 4929 O ALA B 286		0
	4.969 5.547 45.682 1.00 24.38	N
ATOM 4932 CA LYS B 287	3.907 5.836 44.705 1.00 25.52	С
ATOM 4934 CB LYS B 287	3.044 4.604 44.349 1.00 26.06	С
ATOM 4937 CG LYS B 287	3.732 3.240 44.182 1.00 28.53	С
	4.511 3.082 42.883 1.00 31.79	С
ATOM 4943 CE LYS B 287	4.644 1.579 42.414 1.00 32.44	С
ATOM 4946 NZ LYS B 287	3.774 0.604 43.161 1.00 31.88	N
ATOM 4950 C LYS B 287	2.934 6.917 45.179 1.00 25.60	С
ATOM 4951 O LYS B 287	2.231 7.510 44.362 1.00 25.69	0
ATOM 4952 N GLN B 288	2.845 7.102 46.499 1.00 25.59	N
ATOM 4954 CA GLN B 288	1.929 8.052 47.129 1.00 25.14	С
ATOM 4956 CB GLN B 288	1.466 7.533 48.507 1.00 24.91	С
ATOM 4959 CG GLN B 288	0.625 6.276 48.456 1.00 25.08	С
ATOM 4962 CD GLN B 288	-0.648 6.436 47.620 1.00 27.43	С
ATOM 4963 OE1 GLN B 288	-1.299 7.491 47.660 1.00 29.70	O
ATOM 4964 NE2 GLN B 288	-0.981 5.418 46.833 1.00 24.98	N
ATOM 4967 C GLN B 288	2.576 9.409 47.326 1.00 24.85	С
ATOM 4968 O GLN B 288	1.890 10.361 47.686 1.00 25.19	O

ATOM 4969 N VAL B 289 ATOM 4971 CA VAL B 289 ATOM 4973 CB VAL B 289 ATOM 4975 CGI VAL B 289 ATOM 4975 CGI VAL B 289 ATOM 4979 CG2 VAL B 289 ATOM 4980 C VAL B 289 ATOM 4981 C VAL B 289 ATOM 4982 C VAL B 289 ATOM 4984 C VAL B 289 ATOM 4985 N PRO B 290 ATOM 4986 CA PRO B 290 ATOM 4986 CA PRO B 290 ATOM 4991 CG PRO B 290 ATOM 4991 CG PRO B 290 ATOM 4992 CD PRO B 290 ATOM 4994 CD PRO B 290 ATOM 4995 O PRO B 290 ATOM 4996 O PRO B 290 ATOM 4997 C PRO B 290 ATOM 4997 C PRO B 290 ATOM 4998 O PRO B 290 ATOM 5001 CA GLY B 291 ATOM 5001 CA GLY B 291 ATOM 5001 CA FIE B 292 ATOM 5006 N PHE B 292 ATOM 5010 CB PHE B 292 ATOM 5014 CDI PHE B 292 ATOM 5016 CEI PHE B 292 ATOM 5020 CE2 PHE B 292 ATOM 5021 CD2 PHE B 292 ATOM 5022 CD2 PHE B 292 ATOM 5024 C PHE B 292 ATOM 5035 CD1 LEU B 293 ATOM 5035 CD1 LEU B 293 ATOM 5036 CD LEU B 293 ATOM 5037 NEL B 294 ATOM 5044 O LEU B 293 ATOM 5055 CD GLN B 294 ATOM 5055 CD GLN B 294 ATOM 5056 OEI GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5050 C GLN B 294 ATOM 5050 C GLN B 294 ATOM 5050 C GLN B 294 ATOM 5051 OEI GLN B 294 ATOM 5050 C GLN B 294 ATOM 5051 C GLN B 294 ATOM 5050 C GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5061 O GLN B 294 ATOM 5060 N LEU B 295 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5061 O GLN B 294 ATOM 5060 N LEU B 295 ATOM 5060 N LEU B 295 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5061 O GLN B 294 ATOM 5060 N LEU B 295 ATOM 5060 N LEU B 295 ATOM 5060 N LEU B 293 ATOM 5060 N				
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ATOM 4975 CG1 VAL B 289 ATOM 4975 CG1 VAL B 289 ATOM 4976 CG2 VAL B 289 ATOM 4983 C VAL B 289 ATOM 4983 C VAL B 289 ATOM 4984 O VAL B 289 ATOM 4985 N PRO B 290 ATOM 4986 CA PRO B 290 ATOM 4986 CA PRO B 290 ATOM 4987 CG PRO B 290 ATOM 4998 CB PRO B 290 ATOM 4991 CG PRO B 290 ATOM 4999 CD PRO B 290 ATOM 4999 CD PRO B 290 ATOM 4999 N GLY B 291 ATOM 5001 CA GLY B 291 ATOM 5004 C GLY B 291 ATOM 5006 N PHE B 292 ATOM 5006 N PHE B 292 ATOM 5010 CB PHE B 292 ATOM 5011 CD PHE B 292 ATOM 5012 CD2 PHE B 292 ATOM 5013 CG PHE B 292 ATOM 5014 CD1 PHE B 292 ATOM 5015 CD PHE B 292 ATOM 5016 CEI PHE B 292 ATOM 5020 CE2 PHE B 292 ATOM 5020 CE2 PHE B 292 ATOM 5021 CD2 PHE B 292 ATOM 5022 CD2 PHE B 292 ATOM 5024 C PHE B 292 ATOM 5025 O PHE B 292 ATOM 5026 CE PHE B 292 ATOM 5026 CE PHE B 292 ATOM 5027 CD2 PHE B 292 ATOM 5028 CA LEU B 293 ATOM 5030 CB LEU B 293 ATOM 5030 CB LEU B 293 ATOM 5030 CB LEU B 293 ATOM 5044 C LEU B 293 ATOM 5045 N GLN B 294 ATOM 5055 CD GLN B 294 ATOM 5056 OEI GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5060 C GLN B 294 ATOM 5060 C GLN B 294 ATOM 5060 N LEU B 293 ATOM 5057 NE2 GLN B 294 ATOM 5060 C GLN B 294 ATOM 5060 N LEU B 293 ATOM 5055 CD GLN B 294 ATOM 5060 C GLN B 294 ATOM 5060 C GLN B 294 ATOM 5060 C GLN B 294 ATOM 5060 N LEU B 293 ATOM 5055 CD GLN B 294 ATOM 5060 C GLN B 294 ATOM 5060 C GLN B 294 ATOM 5060 N LEU B 293 ATOM 5060 C GLN B 294 ATOM 5060 N LEU B 293 ATOM 5060 C GLN B 294 ATOM 5060 N LEU B 293 ATOM 5060 C GLN B 294 ATOM 5060 N LEU B 293 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5060 N LEU B 295 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 293 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 293 ATOM 5062 N LEU B 293 ATOM 5060 C GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295	С	4.621 10.739 47.252 1.00 23.51		
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ATOM 4983 C VALB 289 ATOM 4984 O VALB 289 ATOM 4985 N PRO B 290 ATOM 4986 CA PRO B 290 ATOM 4986 CA PRO B 290 ATOM 4987 CD PRO B 290 ATOM 4991 CG PRO B 290 ATOM 4994 CD PRO B 290 ATOM 4999 CD PRO B 290 ATOM 4999 O PRO B 290 ATOM 4999 N GLY B 291 ATOM 5001 CA GLY B 291 ATOM 5005 O GLY B 291 ATOM 5006 N PHE B 292 ATOM 5010 CB PHE B 292 ATOM 5010 CB PHE B 292 ATOM 5010 CB PHE B 292 ATOM 5011 CG PHE B 292 ATOM 5012 CD2 PHE B 292 ATOM 5013 CG PHE B 292 ATOM 5014 CD1 PHE B 292 ATOM 5016 CE1 PHE B 292 ATOM 5018 CZ PHE B 292 ATOM 5022 CD2 PHE B 292 ATOM 5024 C PHE B 292 ATOM 5025 O PHE B 292 ATOM 5025 O PHE B 292 ATOM 5026 N LEUB 293 ATOM 5030 CB LEUB 293 ATOM 5030 CB LEUB 293 ATOM 5031 C LEUB 293 ATOM 5032 CD2 PHE B 293 ATOM 5034 C LEUB 293 ATOM 5035 CD1 LEUB 293 ATOM 5044 O LEUB 293 ATOM 5045 N GLN B 294 ATOM 5056 OEI GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5056 OEI GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5050 N LEUB 293 ATOM 5050 C GLN B 294 ATOM 5051 N GLN B 294 ATOM 5056 OEI GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5050 N LEUB 293 ATOM 5056 OEI GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5056 N LEUB 293 ATOM 5056 OEI GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5050 C LEUB 293 ATOM 5050 C GLN B 294 ATOM 5051 N LEUB 293 ATOM 5050 C GLN B 294 ATOM 5056 OEI GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5056 N LEUB 293 ATOM 5056 OEI GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEUB 293 ATOM 5060 C GLN B 294 ATOM 5060 N LEUB 293 ATOM 5056 OEI GLN B 294 ATOM 5061 O GLN B 294 ATOM 5060 N LEUB 293 ATOM 5061 O GLN B 294 ATOM 5060 N LEUB 293 ATOM 5061 O GLN B 294 ATOM 5060 N LEUB 293 ATOM 5061 O GLN B 294 ATOM 5060 N LEUB 293 ATOM 5060 N LEUB 293 ATOM 5061 O GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEUB 293 ATOM 5060 N LEUB 293 ATOM 5060 C GLN B 294 ATOM 5060 N LEUB 293 ATOM 5060 N LEUB 29	С			
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ATOM 5013 CG PHE B 292 ATOM 5014 CD1 PHE B 292 ATOM 5016 CE1 PHE B 292 ATOM 5018 CZ PHE B 292 ATOM 5020 CE2 PHE B 292 ATOM 5022 CD2 PHE B 292 ATOM 5024 C PHE B 292 ATOM 5025 O PHE B 292 ATOM 5026 N LEU B 293 ATOM 5030 CB LEU B 293 ATOM 5040 CB LEU B 293 ATOM 5055 CD1 LEU B 293 ATOM 5040 C LEU B 293 ATOM 5047 CA GLN B 294 ATOM 5055 CD GLN B 294 ATOM 5056 OE1 GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295	С	7.147 9.314 43.346 1.00 17.81		
ATOM 5014 CD1 PHE B 292 ATOM 5016 CE1 PHE B 292 ATOM 5018 CZ PHE B 292 ATOM 5020 CE2 PHE B 292 ATOM 5022 CD2 PHE B 292 ATOM 5024 C PHE B 292 ATOM 5025 O PHE B 292 ATOM 5026 N LEU B 293 ATOM 5030 CB LEU B 293 ATOM 5030 CB LEU B 293 ATOM 5031 CG LEU B 293 ATOM 5031 CG LEU B 293 ATOM 5032 CD2 LEU B 293 ATOM 5030 CB LEU B 293 ATOM 5030 CB LEU B 293 ATOM 5031 CG LEU B 293 ATOM 5032 CD2 LEU B 293 ATOM 5035 CD1 LEU B 293 ATOM 5040 C LEU B 293 ATOM 5045 N GLN B 294 ATOM 5055 CD GLN B 294 ATOM 5056 OE1 GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5061 O GLN B 294 ATOM 5061 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5061 O GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5061 O GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295	С	8.097 8.164 43.218 1.00 15.70		
ATOM 5016 CE1 PHE B 292 ATOM 5018 CZ PHE B 292 ATOM 5020 CE2 PHE B 292 ATOM 5022 CD2 PHE B 292 ATOM 5024 C PHE B 292 ATOM 5025 O PHE B 292 ATOM 5026 N LEU B 293 ATOM 5030 CB LEU B 293 ATOM 5030 CB LEU B 293 ATOM 5031 CG LEU B 293 ATOM 5031 CG LEU B 293 ATOM 5032 CD1 LEU B 293 ATOM 5034 C LEU B 293 ATOM 5035 CD1 LEU B 293 ATOM 5035 CD1 LEU B 293 ATOM 5040 C LEU B 293 ATOM 5040 C LEU B 293 ATOM 5045 CD LEU B 293 ATOM 5045 CD LEU B 293 ATOM 5045 C LEU B 293 ATOM 5045 N GLN B 294 ATOM 5055 CD GLN B 294 ATOM 5056 OE1 GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5061 O GLN B 294 ATOM 5066 N LEU B 295 ATOM 5066 N LEU B 295 ATOM 5067 N LEU B 295 ATOM 5060 C GLN B 294 ATOM 5060 N LEU B 295 ATOM 5060 N LEU B 295 ATOM 5061 O GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295	C	9.436 8.339 43.477 1.00 14.75		
ATOM 5020 CE2 PHE B 292 ATOM 5022 CD2 PHE B 292 ATOM 5024 C PHE B 292 ATOM 5025 O PHE B 292 ATOM 5026 N LEU B 293 ATOM 5028 CA LEU B 293 ATOM 5030 CB LEU B 293 ATOM 5033 CG LEU B 293 ATOM 5035 CD1 LEU B 293 ATOM 5036 CD2 LEU B 293 ATOM 5044 O LEU B 293 ATOM 5045 N GLN B 294 ATOM 5045 CG GLN B 294 ATOM 5055 CD GLN B 294 ATOM 5056 OE1 GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 293 ATOM 5061 O GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 293 ATOM 5062 N LEU B 293 ATOM 5062 N LEU B 294 ATOM 5061 O GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5063 O CE2 PHE B 292 ACC CD2 PHE B 292 ACC COCC COCC COCC COCC COCC COCC COCC	C	10.322 7.306 43.370 1.00 12.99		
ATOM 5022 CD2 PHE B 292 ATOM 5024 C PHE B 292 ATOM 5025 O PHE B 292 ATOM 5026 N LEU B 293 ATOM 5028 CA LEU B 293 ATOM 5030 CB LEU B 293 ATOM 5033 CG LEU B 293 ATOM 5035 CD1 LEU B 293 ATOM 5039 CD2 LEU B 293 ATOM 5043 C LEU B 293 ATOM 5044 O LEU B 293 ATOM 5045 N GLN B 294 ATOM 5045 CG GLN B 294 ATOM 5055 CD GLN B 294 ATOM 5056 OE1 GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5063 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5063 ATOM 5061 O GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5063 ATOM 5062 N LEU B 295 ATOM 5064 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295	C	9.868 6.065 43.025 1.00 15.22	5018 CZ PHE B 292	ATOM
ATOM 5024 C PHE B 292 ATOM 5025 O PHE B 292 ATOM 5026 N LEU B 293 ATOM 5028 CA LEU B 293 ATOM 5030 CB LEU B 293 ATOM 5033 CG LEU B 293 ATOM 5035 CD1 LEU B 293 ATOM 5039 CD2 LEU B 293 ATOM 5043 C LEU B 293 ATOM 5044 O LEU B 293 ATOM 5045 N GLN B 294 ATOM 5050 CG GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 B.834 9.652 40.900 1.00 18.05  7.695 9.244 40.133 1.00 19.39  5.501 8.887 39.456 1.00 19.72  3.526 8.460 39.652 1.00 19.64  3.268 7.255 40.598 1.00 19.21  1.807 6.829 40.550 1.00 16.19  4.197 6.054 40.297 1.00 17.72  5.207 9.630 38.130 1.00 19.37  5.014 9.058 37.080 1.00 19.37  5.014 9.058 37.080 1.00 19.37  5.975 11.664 37.008 1.00 21.50  5.966 13.183 37.332 1.00 22.59  4.564 13.821 37.595 1.00 27.10  4.654 15.198 38.308 1.00 33.39  5.554 16.012 38.022 1.00 38.40  3.721 15.449 39.237 1.00 37.44  7.368 11.312 36.468 1.00 21.10  7.672 11.635 35.314 1.00 21.09  8.238 10.703 37.289 1.00 19.82	С	8.518 5.855 42.754 1.00 14.12	5020 CE2 PHE B 292	ATOM
ATOM 5025 O PHE B 292 ATOM 5026 N LEU B 293 ATOM 5028 CA LEU B 293 ATOM 5030 CB LEU B 293 ATOM 5033 CG LEU B 293 ATOM 5035 CD1 LEU B 293 ATOM 5043 C LEU B 293 ATOM 5044 O LEU B 293 ATOM 5045 N GLN B 294 ATOM 5055 CD GLN B 294 ATOM 5056 OE1 GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5063 O PHE B 292 5.244 40.133 1.00 17.83 5.527 9.585 40.640 1.00 19.39 5.001 8.887 39.456 1.00 19.72 A.640 39.652 1.00 19.61 A.652 1.064 40.297 1.00 17.72 A.682 1.064 40.297 1.00 17.72 5.001 8.887 39.456 1.00 19.72 3.526 8.460 39.652 1.00 19.61 4.197 6.054 40.297 1.00 17.72 5.001 8.887 39.456 1.00 19.72 3.526 8.460 39.652 1.00 19.61 4.197 6.054 40.297 1.00 17.72 5.001 8.887 39.456 1.00 19.72 3.526 8.460 39.652 1.00 19.61 4.197 6.054 40.297 1.00 17.72 5.001 8.887 39.456 1.00 19.72 3.526 8.460 39.652 1.00 19.64 4.197 6.054 40.297 1.00 17.72 5.014 9.058 37.080 1.00 19.61 5.622 10.884 38.193 1.00 20.20 5.975 11.664 37.008 1.00 21.50 5.966 13.183 37.332 1.00 22.59 4.564 13.821 37.595 1.00 27.10 4.654 15.198 38.308 1.00 33.39 5.554 16.012 38.022 1.00 38.40 3.721 15.449 39.237 1.00 37.44 7.368 11.312 36.468 1.00 21.10 7.672 11.635 35.314 1.00 21.09 8.238 10.703 37.289 1.00 19.82	C	7.641 6.910 42.864 1.00 14.10	5022 CD2 PHE B 292	ATOM
ATOM 5026 N LEU B 293 ATOM 5028 CA LEU B 293 ATOM 5030 CB LEU B 293 ATOM 5033 CG LEU B 293 ATOM 5035 CD1 LEU B 293 ATOM 5039 CD2 LEU B 293 ATOM 5043 C LEU B 293 ATOM 5044 O LEU B 293 ATOM 5045 N GLN B 294 ATOM 5047 CA GLN B 294 ATOM 5052 CG GLN B 294 ATOM 5055 CD GLN B 294 ATOM 5056 OE1 GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5063 CD GLN B 294 ATOM 5060 C GLN B 294 ATOM 5060 N LEU B 294 ATOM 5060 N LEU B 295 ATOM 5060 N LEU B 294 ATOM 5060 N LEU B 295 ATOM 5060 N LEU B 295 ATOM 5060 N LEU B 294 ATOM 5061 O GLN B 294 ATOM 5060 N LEU B 295	C	6.834 9.652 40.900 1.00 18.05	5024 C PHE B 292	ATOM
ATOM 5028 CA LEU B 293 ATOM 5030 CB LEU B 293 ATOM 5033 CG LEU B 293 ATOM 5035 CD1 LEU B 293 ATOM 5039 CD2 LEU B 293 ATOM 5043 C LEU B 293 ATOM 5044 O LEU B 293 ATOM 5045 N GLN B 294 ATOM 5047 CA GLN B 294 ATOM 5052 CG GLN B 294 ATOM 5055 CD GLN B 294 ATOM 5056 OE1 GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5060 C GLN B 294 ATOM 5060 N LEU B 295 ATOM 5060 C GLN B 294 ATOM 5060 N LEU B 295 ATOM 5060 C GLN B 294 ATOM 5060 N LEU B 295 ATOM 5060 C GLN B 294 ATOM 5060 N LEU B 295 ATOM 5060 N LEU B 295 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5060 N LEU B 295 ATOM 5060 C GLN B 294 ATOM 5060 N LEU B 295 ATOM 5060 C GLN B 294 ATOM 5060 N LEU B 295 ATOM 5060 N LEU B 295	Ο	7.695 9.244 40.133 1.00 17.83	5025 O PHE B 292	<b>ATOM</b>
ATOM 5030 CB LEU B 293 ATOM 5033 CG LEU B 293 ATOM 5035 CD1 LEU B 293 ATOM 5039 CD2 LEU B 293 ATOM 5043 C LEU B 293 ATOM 5044 O LEU B 293 ATOM 5045 N GLN B 294 ATOM 5047 CA GLN B 294 ATOM 5052 CG GLN B 294 ATOM 5055 CD GLN B 294 ATOM 5055 CD GLN B 294 ATOM 5056 OE1 GLN B 294 ATOM 5060 C GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 293 ATOM 5063 CB LEU B 293 3.526 8.460 39.652 1.00 19.64 3.268 7.255 40.598 1.00 19.21 1.807 6.829 40.550 1.00 16.19 4.197 6.054 40.297 1.00 17.72 5.207 9.630 38.130 1.00 19.37 5.014 9.058 37.080 1.00 19.61 5.622 10.884 38.193 1.00 20.20 5.975 11.664 37.008 1.00 21.50 5.966 13.183 37.332 1.00 22.59 4.564 13.821 37.595 1.00 27.10 4.654 15.198 38.308 1.00 33.39 5.554 16.012 38.022 1.00 38.40 3.721 15.449 39.237 1.00 37.44 7.368 11.312 36.468 1.00 21.10 7.672 11.635 35.314 1.00 21.09 ATOM 5062 N LEU B 295 8.238 10.703 37.289 1.00 19.82	N	5.527 9.585 40.640 1.00 19.39	5026 N LEUB 293	<b>ATOM</b>
ATOM 5033 CG LEU B 293 ATOM 5035 CD1 LEU B 293 ATOM 5039 CD2 LEU B 293 ATOM 5043 C LEU B 293 ATOM 5044 O LEU B 293 ATOM 5045 N GLN B 294 ATOM 5047 CA GLN B 294 ATOM 5052 CG GLN B 294 ATOM 5055 CD GLN B 294 ATOM 5056 OE1 GLN B 294 ATOM 5060 C GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 293 ATOM 5063 CG LEU B 293 ATOM 5064 CG LEU B 293 ATOM 5065 CD GLN B 294 ATOM 5060 C GLN B 294 ATOM 5060 C GLN B 294 ATOM 5062 N LEU B 295 ATOM 5063 CD I GLN B 294 ATOM 5060 C GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5063 CD LEU B 295 ATOM 5063 CD LEU B 294 ATOM 5064 C GLN B 294 ATOM 5065 CD GLN B 294 ATOM 5066 C GLN B 294 ATOM 5067 NE2 GLN B 294 ATOM 5068 N LEU B 295 ATOM 5069 C GLN B 294 ATOM 5060 C GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295	C		5028 CA LEU B 293	ATOM
ATOM 5035 CD1 LEU B 293 ATOM 5039 CD2 LEU B 293 ATOM 5043 C LEU B 293 ATOM 5044 O LEU B 293 ATOM 5045 N GLN B 294 ATOM 5047 CA GLN B 294 ATOM 5052 CG GLN B 294 ATOM 5055 CD GLN B 294 ATOM 5055 CD GLN B 294 ATOM 5056 OE1 GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5063 CD1 LEU B 293 ATOM 5064 CB GLN B 294 ATOM 5056 OE1 GLN B 294 ATOM 5060 C GLN B 294 ATOM 5060 C GLN B 294 ATOM 5060 N LEU B 295 ATOM 5060 N LEU B 295 ATOM 5060 R CBN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5063 CD1 LEU B 295 ATOM 5064 CD2 LEU B 295 ATOM 5065 CD1 LEU B 295 ATOM 5066 CD1 LEU B 295 ATOM 5067 NE2 GLN B 294 ATOM 5068 N LEU B 295 ATOM 5068 CD2 LEU B 295 ATOM 5069 CD2 LEU B 295 ATOM 5069 CD2 LEU B 295 ATOM 5060 CD2 LEU	C		5030 CB LEU B 293	ATOM
ATOM 5039 CD2 LEU B 293	С		5033 CG LEU B 293	ATOM
ATOM 5043 C LEU B 293 5.207 9.630 38.130 1.00 19.37 ATOM 5044 O LEU B 293 5.014 9.058 37.080 1.00 19.61 ATOM 5045 N GLN B 294 5.622 10.884 38.193 1.00 20.20 ATOM 5047 CA GLN B 294 5.975 11.664 37.008 1.00 21.50 ATOM 5052 CG GLN B 294 4.564 13.821 37.595 1.00 27.10 ATOM 5055 CD GLN B 294 ATOM 5056 OE1 GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5060 C GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 8.238 10.703 37.289 1.00 19.82	C			
ATOM 5044 O LEU B 293 5.014 9.058 37.080 1.00 19.61 ATOM 5045 N GLN B 294 5.622 10.884 38.193 1.00 20.20 ATOM 5047 CA GLN B 294 5.975 11.664 37.008 1.00 21.50 ATOM 5049 CB GLN B 294 4.564 13.821 37.595 1.00 27.10 ATOM 5055 CD GLN B 294 4.654 15.198 38.308 1.00 33.39 ATOM 5056 OE1 GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5060 C GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 8.238 10.703 37.289 1.00 19.82	С		5039 CD2 LEU B 293	ATOM
ATOM 5045 N GLN B 294 5.622 10.884 38.193 1.00 20.20 ATOM 5047 CA GLN B 294 5.975 11.664 37.008 1.00 21.50 ATOM 5049 CB GLN B 294 5.966 13.183 37.332 1.00 22.59 ATOM 5052 CG GLN B 294 4.564 13.821 37.595 1.00 27.10 ATOM 5055 CD GLN B 294 4.654 15.198 38.308 1.00 33.39 ATOM 5056 OE1 GLN B 294 5.554 16.012 38.022 1.00 38.40 ATOM 5060 C GLN B 294 7.368 11.312 36.468 1.00 21.10 ATOM 5061 O GLN B 294 7.672 11.635 35.314 1.00 21.09 ATOM 5062 N LEU B 295 8.238 10.703 37.289 1.00 19.82	C			
ATOM 5047 CA GLN B 294 ATOM 5049 CB GLN B 294 ATOM 5052 CG GLN B 294 ATOM 5055 CD GLN B 294 ATOM 5056 OE1 GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5063 37.008 1.00 21.50 5.975 11.664 37.008 1.00 21.50 5.966 13.183 37.332 1.00 22.59 4.564 13.821 37.595 1.00 27.10 4.654 15.198 38.308 1.00 33.39 5.554 16.012 38.022 1.00 38.40 7.368 11.312 36.468 1.00 21.10 7.672 11.635 35.314 1.00 21.09 8.238 10.703 37.289 1.00 19.82	О			
ATOM 5049 CB GLN B 294 ATOM 5052 CG GLN B 294 ATOM 5055 CD GLN B 294 ATOM 5056 OE1 GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5062 SLN B 294 ATOM 5062 SLN B 294 ATOM 5063 SLN B 294 ATOM 5064 C GLN B 294 ATOM 5065 N LEU B 295 ATOM 5065 N LEU B 295 ATOM 5066 SLN B 294 ATOM 5066 OE1 GLN B 294 ATOM 5066 OE1 GLN B 294 ATOM 5066 OE1 GLN B 294 ATOM 5066 SLN B 294 ATOM 5066 OE1 GLN B 294 A.564 SL3.821 37.595 SL00 27.10 ATOM 5066 OE1 GLN B 294 A.654 SL3.821 37.595 SL00 27.10 ATOM 5066 OE1 GLN B 294 A.654 SL3.821 37.595 SL00 27.10 ATOM 5066 OE1 GLN B 294 A.654 SL3.821 37.595 SL00 27.10 ATOM 5066 OE1 GLN B 294 A.654 SL3.821 37.595 SL00 27.10 ATOM 5066 OE1 GLN B 294 A.654 SL3.821 37.595 SL00 27.10 ATOM 5066 OE1 GLN B 294 A.654 SL3.821 37.595 SL00 27.10 ATOM 5066 OE1 GLN B 294 A.654 SL3.821 37.595 SL00 27.10 ATOM 5066 OE1 GLN B 294 A.654 SL3.821 37.595 SL00 27.10 ATOM 5066 OE1 GLN B 294 A.654 SL3.821 37.595 SL00 27.10 ATOM 5066 OE1 GLN B 294 A.654 SL3.821 37.595 SL00 27.10 ATOM 5066 OE1 GLN B 294 A.654 SL3.821 37.595 SL00 27.10 ATOM 5066 OE1 GLN B 294 A.654 SL3.821 37.595 SL00 27.10 ATOM 5066 OE1 GLN B 294 A.654 SL00 27	N			
ATOM 5052 CG GLN B 294 4.564 13.821 37.595 1.00 27.10 ATOM 5055 CD GLN B 294 4.654 15.198 38.308 1.00 33.39 ATOM 5056 OE1 GLN B 294 5.554 16.012 38.022 1.00 38.40 ATOM 5060 C GLN B 294 7.368 11.312 36.468 1.00 21.10 ATOM 5061 O GLN B 294 7.672 11.635 35.314 1.00 21.09 ATOM 5062 N LEU B 295 8.238 10.703 37.289 1.00 19.82	С			
ATOM 5055 CD GLN B 294 4.654 15.198 38.308 1.00 33.39 ATOM 5056 OE1 GLN B 294 5.554 16.012 38.022 1.00 38.40 ATOM 5057 NE2 GLN B 294 7.368 11.312 36.468 1.00 21.10 ATOM 5061 O GLN B 294 7.672 11.635 35.314 1.00 21.09 ATOM 5062 N LEU B 295 8.238 10.703 37.289 1.00 19.82	С			
ATOM 5056 OE1 GLN B 294 ATOM 5057 NE2 GLN B 294 ATOM 5060 C GLN B 294 ATOM 5061 O GLN B 294 ATOM 5062 N LEU B 295 ATOM 5062 N LEU B 295 ATOM 5066 OE1 GLN B 294 7.554 16.012 38.022 1.00 38.40 3.721 15.449 39.237 1.00 37.44 7.368 11.312 36.468 1.00 21.10 7.672 11.635 35.314 1.00 21.09 8.238 10.703 37.289 1.00 19.82	C			
ATOM 5057 NE2 GLN B 294 3.721 15.449 39.237 1.00 37.44 ATOM 5060 C GLN B 294 7.368 11.312 36.468 1.00 21.10 ATOM 5061 O GLN B 294 7.672 11.635 35.314 1.00 21.09 ATOM 5062 N LEU B 295 8.238 10.703 37.289 1.00 19.82	. C			
ATOM 5060 C GLN B 294 7.368 11.312 36.468 1.00 21.10 ATOM 5061 O GLN B 294 7.672 11.635 35.314 1.00 21.09 ATOM 5062 N LEU B 295 8.238 10.703 37.289 1.00 19.82	0			
ATOM 5061 O GLN B 294 7.672 11.635 35.314 1.00 21.09 ATOM 5062 N LEU B 295 8.238 10.703 37.289 1.00 19.82	N			
ATOM 5062 N LEUB 295 8.238 10.703 37.289 1.00 19.82	C			
	0			
	N			
ATOM 5064 CA LEU B 295 9.543 10.261 36.788 1.00 19.71	С	9.543 10.261 36.788 1.00 19.71	5064 CA LEU B 295	ATOM

ATOM	5066 C	B LEU B 295	10.538 9.970 37.924 1.00 20.43	С
ATOM	5069 C		10.846 11.084 38.906 1.00 21.71	С
ATOM	5071 C	D1 LEU B 295	11.603 10.523 40.085 1.00 23.72	С
ATOM	5075 C	D2 LEU B 295	11.615 12.198 38.214 1.00 23.91	С
ATOM	5079 C	LEU B 295	9.337 9.012 35.972 1.00 18.12	С
ATOM	5080 O	LEU B 295	8.359 8.281 36.192 1.00 18.00	Ο
ATOM	5081 N		10.224 8.785 35.011 1.00 17.34	N
ATOM		A GLY B 296	10,260 7.531 34.259 1.00 17.08	С
ATOM		<b>GLY B 296</b>	10.459 6.338 35.181 1.00 16.81	С
ATOM		GLY B 296	10.996 6.491 36.251 1.00 16.26	O
ATOM		ARG B 297	9.991 5.157 34.797 1.00 17.84	N
			10.085 3.999 35.679 1.00 18.97	С
ATOM		B ARG B 297	9.340 2.765 35.152 1.00 19.44	С
ATOM		G ARG B 297	9.369 1.623 36.191 1.00 25.58	С
ATOM		D ARG B 297	8.029 0.943 36.521 1.00 33.49	С
ATOM		E ARG B 297		N
ATOM		Z ARG B 297		С
	5104 N	H1 ARG B 297	8.988 -1.443 35.217 1.00 40.97	N
		H2 ARG B 297		N
		ARG B 297		С
		ARG B 297	11.780 3.095 37.094 1.00 16.79	O
		GLU B 298	12.470 3.863 35.117 1.00 17.36	N
			13.872 3.510 35.382 1.00 17.32	С
			14.722 3.476 34.100 1.00 17.52	С
			14.462 2.202 33.275 1.00 18.16	C
			15.096 2.207 31.886 1.00 21.18	С
			15.119 3.301 31.259 1.00 22.69	О
			15.581 1.121 31.428 1.00 18.63	О
ATOM		GLU B 298	14.476 4.392 36.465 1.00 17.16	С
ATOM	5126 C	GLU B 298	15.283 3.896 37.245 1.00 17.40	0
ATOM	5127 N	ASP B 299	14.053 5.653 36.563 1.00 16.22	N
ATOM	5129 C	A ASP B 299	14.505 6.534 37.640 1.00 16.84	C
ATOM	5131 C	B ASP B 299	14.263 7.996 37.279 1.00 17.23	С
ATOM	5134 C	G ASP B 299	15.325 8.571 36.351 1.00 19.38	С
<b>ATOM</b>	5135 C	D1 ASP B 299	16.320 7.892 36.011 1.00 18.73	Ο
			15.225 9.726 35.892 1.00 23.85	0
<b>ATOM</b>	5137 C	ASP B 299	13.812 6.266 39.012 1.00 16.95	С
<b>ATOM</b>	5138 C	ASP B 299	14.425 6.447 40.047 1.00 15.53	O
ATOM	5139 N	I GLN B 300	12.533 5.891 39.000 1.00 16.90	N
ATOM	5141 C	A GLN B 300	11.806 5.454 40.191 1.00 16.81	С
		B GLN B 300	10.405 4.978 39.804 1.00 16.86	С
		G GLN B 300	9.455 6.063 39.266 1.00 17.75	C
		D GLN B 300	8.125 5.493 38.770 1.00 16.43	C
		E1 GLN B 300	7.711 4.452 39.234 1.00 16.78	Ο
		IE2 GLN B 300	7.472 6.175 37.817 1.00 13.03	N
	5154 C	GLN B 300	12.556 4.277 40.822 1.00 17.48	С
ATOM	5155 C	GLN B 300	12.809 4.251 42.021 1.00 16.85	Ο
ATOM	5156 N	ILE B 301	12.898 3.303 39.988 1.00 17.63	N

		05	
ATOM		13.665 2.145 40.401 1.00 18.03	C
ATOM	5160 CB ILE B 301	13.857 1.175 39.199 1.00 18.58	С
ATOM	5162 CG1 ILE B 301	12.519 0.475 38.861 1.00 19.45	С
ATOM	5165 CD1 ILE B 301	12.484 -0.080 37.456 1.00 19.64	С
ATOM	5169 CG2 ILE B 301	14.899 0.096 39.512 1.00 18.33	C
<b>ATOM</b>	5173 C ILE B 301	15.017 2.579 41.002 1.00 17.95	C
ATOM	5174 O ILE B 301	15.361 2.151 42.109 1.00 17.99	0
ATOM	5175 N ALA B 302	15.740 3.461 40.304 1.00 16.92	N
ATOM	5177 CA ALA B 302	17.058 3.902 40.742 1.00 16.34	С
ATOM	5179 CB ALA B 302	17.698 4.738 39.702 1.00 16.84	С
ATOM	5183 C ALA B 302	17.019 4.654 42.052 1.00 16.05	C
ATOM	5184 O ALA B 302	17.828 4.414 42.935 1.00 15.80	Ο
ATOM	5185 N LEUB 303	16.068 5.556 42.183 1.00 17.14	N
ATOM	5187 CA LEU B 303	15.849 6.288 43.418 1.00 17.79	C
ATOM	5189 CB LEU B 303	14.791 7.385 43.231 1.00 18.09	С
ATOM	5192 CG LEU B 303	15.221 8.531 42.308 1.00 17.67	C
ATOM	5194 CD1 LEU B 303	14.092 9.512 42.250 1.00 19.09	C
ATOM	5198 CD2 LEU B 303	16.499 9.237 42.738 1.00 17.93	С
ATOM	5202 C LEU B 303	15.481 5.397 44.603 1.00 17.88	С
ATOM	5203 O LEU B 303	16.018 5.576 45.694 1.00 18.09	О
ATOM	5204 N LEU B 304	14.599 4.435 44.384 1.00 18.34	N
ATOM	5206 CA LEU B 304	14.225 3.462 45.424 1.00 19.12	С
ATOM	5208 CB LEU B 304	13.000 2.648 45.029 1.00 19.11	С
ATOM	Jair oo badaat.	11.682 3.361 45.284 1.00 22.25	C
ATOM	5213 CD1 LEU B 304	10.525 2.646 44.598 1.00 23.77	С
ATOM	5217 CD2 LEU B 304		С
ATOM	5221 C LEUB 304	15.362 2.504 45.797 1.00 19.16	C
ATOM	5222 O LEUB 304		О
ATOM	5223 N LYS B 305		N
ATOM		17.276 1.184 45.087 1.00 20.90	C
ATOM	5227 CB LYS B 305	18.086 0.982 43.803 1.00 21.43	С
ATOM	5230 CG LYS B 305	18.188 -0.474 43.290 1.00 25.43	С
ATOM		19.671 -0.824 43.050 1.00 29.56	С
ATOM	5236 CE LYS B 305	19.872 -2.081 42.196 1.00 33.34	С
ATOM	5239 NZ LYS B 305	20.738 -3.092 42.899 1.00 35.01	N
ATOM	5243 C LYS B 305	18.194 1.820 46.132 1.00 21.19	С
ATOM	5244 O LYS B 305	18.538 1.202 47.129 1.00 20.18	О
ATOM	5245 N ALA B 306	18.575 3.079 45.885 1.00 21.68	N
ATOM	5247 CA ALA B 306	19.510 3.801 46.737 1.00 21.68	С
ATOM	5249 CB ALA B 306	20.118 5.014 45.965 1.00 21.77	C
ATOM	5253 C ALA B 306	18.909 4.265 48.054 1.00 21.59	С
ATOM	5254 O ALA B 306	19.554 4.149 49.054 1.00 22.32	О
ATOM	5255 N SER B 307	17.673 4.763 48.059 1.00 21.99	N
ATOM	5257 CA SER B 307	17.102 5.400 49.238 1.00 22.32	C
ATOM	5259 CB SER B 307	16.153 6.529 48.826 1.00 22.68	C
ATOM	5262 OG SER B 307	14.966 6.025 48.261 1.00 27.06	0
ATOM	5264 C SER B 307	16.392 4.463 50.237 1.00 21.68	C
ATOM	5265 O SER B 307	16.207 4.829 51.383 1.00 21.09	О

ATOM	5266 N THR B 308	16.068 3.242 49.820 1.00 21.12	N
ATOM	5268 CA THR B 308	15.358 2.303 50.663 1.00 20.17	С
ATOM	5270 CB THR B 308	15.120 1.004 49.866 1.00 20.22	C
ATOM	5272 OG1 THR B 308	14.067 1.229 48.910 1.00 21.08	. О
ATOM	5274 CG2 THR B 308	14.597 -0.110 50.733 1.00 20.01	C
ATOM		16.055 2.063 52.013 1.00 19.87	С
ATOM	5279 O THR B 308		Ο
ATOM		17.322 1.681 51.998 1.00 20.00	N
ATOM	5282 CA ILEB 309	18.078 1.457 53.226 1.00 20.44	C
ATOM	5284 CB ILE B 309	19.514 0.916 52.937 1.00 20.43	C
ATOM	5286 CG1 ILE B 309	20.193 0.428 54.226 1.00 21.85	C
ATOM	5289 CD1 ILE B 309	19.587 -0.887 54.827 1.00 23.34	С
ATOM	5293 CG2 ILE B 309		С
ATOM	5297 C ILE B 309	18.118 2.715 54.081 1.00 20.93	C
ATOM		18.043 2.638 55.300 1.00 21.58	O
ATOM	5299 N GLU B 310	18.183 3.877 53.450 1.00 21.10	N
ATOM		18.233 5.136 54.194 1.00 20.55	C
		18.665 6.279 53.278 1.00 21.11	C
ATOM	5306 CG GLU B 310	20.079 6.040 52.736 1.00 21.63	С
ATOM	5309 CD GLU B 310	20.596 7.171 51.871 1.00 21.01	C
ATOM		20.027 8.242 51.917 1.00 22.94	0
ATOM		21.586 6.987 51.151 1.00 24.16	O
ATOM			C
ATOM	5313 O GLU B 310	16.861 5.928 55.933 1.00 18.83	O
ATOM		15.828 5.084 54.181 1.00 20.26	N
		14.501 5.301 54.734 1.00 19.99	C
ATOM	5318 CB ILEB 311	13.466 5.158 53.614 1.00 20.39	С
ATOM	5320 CG1 ILE B 311	13.622 6.325 52.637 1.00 20.26	C
ATOM	5323 CD1 ILE B 311	12.700 6.234 51.452 1.00 20.97	С
ATOM		12.013 5.097 54.200 1.00 20.99	С
ATOM		14.230 4.325 55.916 1.00 19.83	C
ATOM	<del>-</del>	13.590 4.684 56.920 1.00 18.39	O
		14.774 3.111 55.796 1.00 19.60	N
ATOM		14.665 2.119 56.854 1.00 19.01	С
ATOM	5337 CB MET B 312	15.236 0.768 56.399 1.00 19.11	C
ATOM		14.301 0.062 55.431 1.00 20.34	C
ATOM		15.032 -1.379 54.654 1.00 23.02	S
ATOM	5344 CE MET B 312	15.212 -2.430 56.106 1.00 20.75	C
ATOM		15.389 2.612 58.082 1.00 18.35	C
ATOM		14.911 2.420 59.178 1.00 16.83	Ο
ATOM		16.551 3.235 57.888 1.00 18.33	N
ATOM		17.357 3.744 58.995 1.00 18.26	С
ATOM		18.725 4.206 58.489 1.00 18.25	C
ATOM		19.673 3.040 58.189 1.00 18.56	С
ATOM		20.869 3.421 57.305 1.00 19.14	C
ATOM		20.170 2.424 59.473 1.00 18.97	С
ATOM		16.618 4.884 59.701 1.00 18.25	C
ATOM	5368 O LEUB 313	16.587 4.957 60.918 1.00 18.53	Ο

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ATOM	5369 N LEUB 314	15.981 5.746 58.938 1.00 18.14	N
ATOM	5371 CA LEU B 314	15.184 6.842 59.509 1.00 18.65	С
	5373 CB LEU B 314		С
	5376 CG LEU B 314		С
ATOM	5378 CD1 LEU B 314	16.217 9.794 58.783 1.00 21.19	С
ATOM		15.206 9.415 56.548 1.00 19.63	С
	5386 C LEU B 314	13.974 6.296 60.298 1.00 18.07	С
		13.629 6.774 61.370 1.00 17.93	0
ATOM		13.309 5.300 59.741 1.00 18.08	N
ATOM	5390 CA GLUB 315	12.166 4.692 60.394 1.00 17.56	С
ATOM	5392 CB GLUB 315	11.424 3.831 59.375 1.00 18.44	С
ATOM	5395 CG GLUB 315	10.579 4.641 58.385 1.00 19.99	С
ATOM	5398 CD GLUB 315	10.579 4.641 58.385 1.00 19.99 9.477 5.446 59.101 1.00 22.89	С
ATOM	5399 OF I GLUB 315	8.566 4.831 59.704 1.00 24.43	O
ATOM	5400 OF2 GLUB 315	9.532 6.691 59.087 1.00 25.41	Ō
ATOM	5401 C GIII B 315	12.581 3.895 61.644 1.00 16.81	C
ATOM	5402 O GLUB 315	11.826 3.775 62.569 1.00 16.86	Ö
		13.801 3.383 61.663 1.00 16.33	N
ATOM	5405 CA THR B 316	14.366 2.674 62.780 1.00 16.08	Ċ
ATOM	5407 CR THR B 316	15.614 1.913 62.285 1.00 15.87	č
ATOM	5409 OG1 THR B 316	15.208 0.804 61.491 1.00 14.80	O
		16.367 1.251 63.426 1.00 17.13	č
		14.749 3.640 63.902 1.00 17.34	c
		14.463 3.401 65.074 1.00 17.55	ŏ
ATOM	5417 N ALA D 217	15.400 4.745 63.552 1.00 18.26	N
ATOM	5410 CA ALA D 317	15.695 5.811 64.522 1.00 18.61	C
ATOM	5419 CA ALA B 317	16.429 6.964 63.824 1.00 18.53	C
		14.421 6.332 65.204 1.00 18.68	c
		14.389 6.571 66.400 1.00 18.89	o
			N
		13.377 6.502 64.426 1.00 18.61	C
		12.083 6.983 64.928 1.00 19.48	
		11.155 7.112 63.709 1.00 19.79	C
		9.762 7.573 63.931 1.00 21.32	C
		8.974 7.561 62.652 1.00 22.32	
		7.814 8.424 62.760 1.00 22.06	
	5442 CZ ARG B 318		C
	5443 NH1 ARG B 318		N
	5446 NH2 ARG B 318		N
	5449 C ARG B 318	11.431 6.027 65.951 1.00 19.52	C
	5450 O ARG B 318	10.512 6.419 66.646 1.00 18.83	O
	5451 N ARG B 319	11.884 4.769 65.972 1.00 19.51	N
	5453 CA ARG B 319	11.359 3.735 66.838 1.00 19.63	C
	5455 CB ARG B 319	11.023 2.513 65.990 1.00 20.14	С
	5458 CG ARG B 319	9.761 2.674 65.155 1.00 20.16	C
	5461 CD ARG B 319	9.662 1.671 64.069 1.00 22.23	C
	5464 NE ARG B 319	8.375 1.782 63.392 1.00 23.64	N
	5466 CZ ARG B 319	8.091 2.668 62.463 1.00 22.31	C
ATOM	5467 NH1 ARG B 319	8.996 3.540 62.053 1.00 21.00	N

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ATOM 5470 NH2 ARG B 319 6.883 2.677 61.934 1.00 23.04 N 12.341 3.326 67.931 1.00 19.98 ATOM 5473 C ARG B 319 C 12.071 2.396 68.673 1.00 18.70 ATOM 5474 O ARG B 319 0 ATOM 5475 N TYR B 320 13.490 4.006 68.013 1.00 20.87 N 14.429 3.830 69.124 1.00 21.31  $\mathbf{C}$ ATOM 5477 CA TYR B 320 C ATOM 5479 CB TYR B 320 15.810 4.382 68.752 1.00 21.41 ATOM 5482 CG TYR B 320 16.807 4.495 69.897 1.00 21.78 C 17.366 3.355 70.464 1.00 21.54  $\mathbf{C}$ ATOM 5483 CD1 TYR B 320 18.290 3.432 71.508 1.00 21.17 C ATOM 5485 CE1 TYR B 320 18.689 4.668 71.998 1.00 21.48 ATOM 5487 CZ TYR B 320 C 19.595 4.689 73.039 1.00 20.80 O ATOM 5488 OH TYR B 320 ATOM 5490 CE2 TYR B 320 18.163 5.837 71.448 1.00 21.45 C  $\mathbf{C}$ ATOM 5492 CD2 TYR B 320 17.218 5.745 70.391 1.00 21.97 13.868 4.515 70.387 1.00 21.80 ATOM 5494 C TYR B 320 C 13.303 5.595 70.328 1.00 21.19 O ATOM 5495 O TYR B 320 ATOM 5496 N ASN B 321 13.998 3.843 71.521 1.00 22.40 N 13.573 4.373 72.802 1.00 22.77  $\mathbf{C}$ ATOM 5498 CA ASN B 321 12.708 3.358 73.550 1.00 22.95 ATOM 5500 CB ASN B 321  $\mathbf{C}$ 12.145 3.903 74.842 1.00 22.61 C ATOM 5503 CG ASN B 321 11.047 3.543 75.250 1.00 22.66 0 ATOM 5504 OD1 ASN B 321 12.895 4.762 75.498 1.00 23.35 ATOM 5505 ND2 ASN B 321 N ATOM 5508 C ASN B 321 14.835 4.609 73.562 1.00 23.23  $\mathbf{C}$ 15.522 3.651 73.936 1.00 22.65 ATOM 5509 O ASN B 321 0 15.151 5.884 73.795 1.00 24.18 ATOM 5510 N HIS B 322 N 16.393 6.224 74.473 1.00 24.47 C ATOM 5512 CA HIS B 322 16.671 7.716 74.398 1.00 24.86 C ATOM 5514 CB HIS B 322 18.070 8.070 74.772 1.00 26.27 C ATOM 5517 CG HIS B 322 19.137 7.229 74.524 1.00 28.18 ATOM 5518 ND1 HIS B 322 N 20.247 7.791 74.968 1.00 29.87  $\mathbf{C}$ ATOM 5520 CE1 HIS B 322 ATOM 5522 NE2 HIS B 322 19.940 8.968 75.492 1.00 29.50 N 18,582 9.162 75.388 1.00 28.26 C ATOM 5524 CD2 HIS B 322 ATOM 5526 C HIS B 322 16.424 5.764 75.919 1.00 24.60 C 17.498 5.505 76.451 1.00 24.45 ATOM 5527 O HIS B 322 0 15.263 5.659 76.555 1.00 25.02 N ATOM 5528 N GLU B 323 ATOM 5530 CA GLU B 323 15.203 5.201 77.954 1.00 26.23 C ATOM 5532 CB GLU B 323 13.811 5.403 78.571 1.00 26.65 C 13.212 6.790 78.408 1.00 28.87 C ATOM 5535 CG GLU B 323 ATOM 5538 CD GLUB 323 11.754 6.805 78.818 1.00 31.76 C 10.910 6.371 77.989 1.00 33.58 ATOM 5539 OE1 GLU B 323 0 ATOM 5540 OE2 GLU B 323 11.461 7.229 79.964 1.00 32.60 0 ATOM 5541 C GLU B 323 15.596 3.725 78.122 1.00 25.81 C ATOM 5542 O GLU B 323 16.390 3.390 79.010 1.00 26.29 0 15.012 2.852 77.298 1.00 24.93 ATOM 5543 N THR B 324 N ATOM 5545 CA THR B 324 15.311 1.418 77.351 1.00 24.29 C 14.126 0.596 76.828 1.00 24.13 ATOM 5547 CB THR B 324  $\mathbf{C}$ ATOM 5549 OG1 THR B 324 13.771 1.042 75.512 1.00 25.21 0 ATOM 5551 CG2 THR B 324 12.851 0.815 77.667 1.00 23.59 C ATOM 5555 C THR B 324 16.557 1.042 76.551 1.00 24.20 C

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ATOM	5556 O THR B 324		О
ATOM	5557 N GLU B 325		N
ATOM	5559 CA GLU B 325	17.977 1.596 74.625 1.00 23.70	С
ATOM	5561 CB GLU B 325	19.364 1.253 75.189 1.00 24.14	С
ATOM	5564 CG GLU B 325	19.832 2.161 76.308 1.00 26.62	С
ATOM	5567 CD GLU B 325	21.336 2.127 76.505 1.00 29.49	C
<b>ATOM</b>	5568 OE1 GLU B 325	21.818 1.245 77.250 1.00 32.94	0
<b>ATOM</b>	5569 OE2 GLU B 325	22.039 2.989 75.926 1.00 32.53	О
ATOM		17.472 0.421 73.791 1.00 22.50	C
ATOM			0
ATOM			N
ATOM		15.556 -0.628 72.625 1.00 21.10	C
ATOM		14.577 -1.483 73.437 1.00 20.94	C
ATOM		15.362 -2.639 74.570 1.00 19.56	S
ATOM		14.796 -0.052 71.432 1.00 20.61	C
ATOM		14.300 1.071 71.509 1.00 20.40	0
ATOM		14.697 -0.836 70.348 1.00 19.85	N
ATOM		13.946 -0.442 69.150 1.00 19.33	C
ATOM	5586 CB ILE B 327	14.789 -0.602 67.845 1.00 19.03	C
	5588 CG1 ILE B 327	16.075 0.213 67.923 1.00 19.00	C
ATOM		17.036 -0.001 66.787 1.00 19.79	C C
ATOM		13.998 -0.115 66.652 1.00 19.82	
ATOM		12.702 -1.301 69.059 1.00 19.16	C
ATOM		12.772 -2.506 69.306 1.00 19.67	0
ATOM		11.581 -0.682 68.682 1.00 18.82	N C
ATOM	5603 CA THR B 328	10.294 -1.352 68.524 1.00 18.96	C
		9.249 -0.689 69.425 1.00 18.83	0
	5607 OG1 THR B 328		C
ATOM		7.904 -1.434 69.391 1.00 18.66 9.788 -1.324 67.058 1.00 19.53	c
ATOM			0
ATOM			N
ATOM		9.343 -2.642 65.054 1.00 19.04	C
ATOM		10.245 -3.635 64.309 1.00 19.24	C
ATOM	5622 CG PHE B 329	11.622 -3.116 64.046 1.00 17.86	C
	5623 CD1 PHE B 329	12.727 -3.768 64.539 1.00 17.81	C
ATOM		14.020 -3.267 64.293 1.00 19.08	Č
ATOM		14.187 -2.105 63.530 1.00 18.44	· c
ATOM		13.084 -1.435 63.061 1.00 18.69	C
ATOM		11.808 -1.933 63.326 1.00 19.29	C
ATOM		7.896 -3.128 65.037 1.00 19.53	C
ATOM		7.393 -3.654 66.012 1.00 19.84	Ö
ATOM		7.235 -2.944 63.899 1.00 20.05	N
ATOM		5.863 -3.396 63.695 1.00 20.57	C
ATOM		5.783 -4.927 63.618 1.00 20.30	Č
ATOM		6.728 -5.566 62.591 1.00 20.35	Č
ATOM			C
ATOM			C

		4.976 -2.784 64.763 1.00 21.47	С
		4.895 -1.556 64.830 1.00 21.99	О
	5654 N LYS B 331	4.326 -3.599 65.588 1.00 21.65	N
		3.487 -3.085 66.647 1.00 22.41	С
ATOM	5658 CB LYS B 331	2.128 -3.796 66.636 1.00 23.11	C
ATOM	5661 CG LYS B 331	1.145 -3.253 67.690 1.00 24.32	C
ATOM	5664 CD LYS B 331	-0.236 -3.877 67.543 1.00 27.35	C
ATOM	5667 CE LYS B 331	-0.555 -4.869 68.655 1.00 27.05	С
ATOM	5670 NZ LYS B 331	-2.010 -4.872 68.941 1.00 28.91	N
ATOM		4.126 -3.198 68.045 1.00 22.31	С
ATOM	5675 O LYS B 331	4.046 -2.242 68.794 1.00 22.32	О
ATOM	5676 N ASP B 332	4.759 -4.342 68.351 1.00 21.99	N
ATOM	5678 CA ASP B 332	5.142 -4.776 69.707 1.00 22.70	C
ATOM	5680 CB ASP B 332	4.166 -5.881 70.209 1.00 23.29	С
ATOM	5683 CG ASP B 332	2.813 -5.372 70.469 1.00 26.06	C
ATOM	5684 OD1 ASP B 332	2.666 -4.139 70.484 1.00 31.51	О
ATOM	5685 OD2 ASP B 332	1.838 -6.112 70.700 1.00 31.02	Ο
ATOM	5686 C ASP B 332		С
ATOM	5687 O ASP B 332		O
ATOM	5688 N PHE B 333	7.205 -5.541 68.692 1.00 20.93	N
ATOM	5690 CA PHE B 333	8.393 -6.381 68.615 1.00 20.56	C
ATOM		8.589 -6.931 67.175 1.00 20.26	С
ATOM	5695 CG PHE B 333	7.773 -8.187 66.859 1.00 18.60	C
ATOM	5696 CD1 PHE B 333	7.974 -8.869 65.668 1.00 16.45	С
ATOM	5698 CE1 PHE B 333	7.235 -10.046 65.359 1.00 16.99	С
ATOM			C
ATOM	5702 CE2 PHE B 333	6.074 -9.858 67.452 1.00 17.17	С
ATOM		6.818 -8.686 67.751 1.00 18.38	С
		9.528 -5.473 69.008 1.00 20.49	С
		9.864 -4.548 68.262 1.00 20.91	0
ATOM	5708 N THR B 334	10.100 -5.703 70.180 1.00 20.24	N
ATOM	5710 CA THR B 334	11.125 -4.806 70.703 1.00 20.44	С
ATOM	5712 CB THR B 334	10.594 -3.926 71.894 1.00 20.17	C
ATOM	5714 OG1 THR B 334	11.636 -3.678 72.846 1.00 20.79	О
	5716 CG2 THR B 334	9.522 -4.614 72.673 1.00 21.30	С
ATOM	5720 C THR B 334	12.439 -5.534 71.012 1.00 20.30	C
	5721 O THR B 334	12.449 -6.640 71.561 1.00 19.10	O
	5722 N TYR B 335	13.534 -4.867 70.631 1.00 20.31	N
	5724 CA TYR B 335	14.844 -5.473 70.484 1.00 20.40	С
	5726 CB TYR B 335	15.174 -5.647 68.990 1.00 20.45	С
	5729 CG TYR B 335	14.148 -6.448 68.225 1.00 20.55	С
	5730 CD1 TYR B 335	13.154 -5.818 67.476 1.00 20.44	С
	5732 CE1 TYR B 335	12.198 -6.569 66.797 1.00 19.73	С
	5734 CZ TYR B 335	12.257 -7.953 66.864 1.00 19.12	С
	5735 OH TYR B 335	11.337 -8.725 66.209 1.00 17.64	Ο
	5737 CE2 TYR B 335	13.229 -8.579 67.601 1.00 19.14	С
	5739 CD2 TYR B 335	14.159 -7.836 68.272 1.00 19.10	С
	5741 C TYR B 335	15.932 -4.612 71.129 1.00 20.52	С

A TON	5742 O TVP R 335	16.014 -3.412 70.893 1.00 20.05	0
ATOM	5742 N SER B 336	16.782 -5.251 71.922 1.00 20.43	N
ATOM	5745 CA SED B 336	17.952 -4.597 72.486 1.00 20.33	C
ATOM	5743 CA SER D 336	18.305 -5.241 73.831 1.00 19.99	Č
ATOM	5747 CB SER B 330	19.505 6.619 73.665 1.00 20.30	Ö
		18.585 -6.618 73.665 1.00 20.30 19.143 -4.690 71.528 1.00 20.27	c
	5752 C SER B 336		0
	5753 O SER B 336		N
	5754 N LYS B 337		
ATOM	5756 CA LYS B 337	21.451 -4.021 71.121 1.00 20.61	C
ATOM	5758 CB LYS B 337	22.568 -3.298 71.884 1.00 20.73	C
ATOM	5761 CG LYS B 337	22.946 -1.926 71.372 1.00 20.74	C
<b>ATOM</b>	5764 CD LYS B 337	24.458 -1.797 71.188 1.00 22.51	С
<b>ATOM</b>	5767 CE LYS B 337	24.986 -0.449 71.664 1.00 24.73	C
<b>ATOM</b>	5770 NZ LYS B 337	25.604 0.333 70.567 1.00 26.13	N
<b>ATOM</b>	5774 C LYS B 337		С
ATOM	5775 O LYS B 337	22.051 -5.968 69.837 1.00 20.79	О
ATOM	5776 N ASP B 338	21.905 -6.215 72.065 1.00 20.59	N
ATOM	5778 CA ASP B 338	22.367 -7.594 72.041 1.00 20.75	C
ATOM	5780 CB ASP B 338	22.527 -8.136 73.470 1.00 20.88	C
ATOM	5783 CG ASP B 338	23.646 -7.453 74.224 1.00 21.14	С
	5784 OD1 ASP B 338		O
		23.767 -7.516 75.454 1.00 19.13	O
	5786 C ASP B 338		С
	5787 O ASP B 338		Ö
	5788 N ASP B 339		Ň
		19.355 -8.971 70.098 1.00 20.18	C
ATOM	5700 CA ASE D 339	17.901 -8.484 70.139 1.00 20.18	č
		17.172 -8.945 71.373 1.00 20.04	C
ATOM	5795 CG ASP B 339	17.694 -9.807 72.080 1.00 21.91	O
			Ö
		16.061 -8.521 71.725 1.00 22.48	
		19.864 -8.993 68.658 1.00 20.01	C
		19.809 -10.031 67.992 1.00 19.12	0
		20.347 -7.845 68.185 1.00 20.00	N
		20.913 -7.732 66.842 1.00 20.04	C
	5804 CB PHE B 340	21.054 -6.266 66.464 1.00 19.91	C
	5807 CG PHE B 340	19.739 -5.540 66.446 1.00 18.63	С
	5808 CD1 PHE B 340	19.324 -4.812 67.547 1.00 15.10	C
	5810 CE1 PHE B 340	18.111 -4.167 67.544 1.00 15.79	C
ATOM	5812 CZ PHE B 340	17.279 -4.273 66.438 1.00 16.79	C
ATOM	5814 CE2 PHE B 340	17.687 -5.004 65.329 1.00 16.17	C
<b>ATOM</b>	5816 CD2 PHE B 340	18.896 -5.640 65.341 1.00 17.09	C
<b>ATOM</b>	5818 C PHE B 340	22.248 -8.474 66.748 1.00 20.74	C
	5819 O PHE B 340	22.536 -9.163 65.759 1.00 20.52	0
	5820 N HIS B 341	23.035 -8.357 67.814 1.00 20.93	N
	5822 CA HIS B 341	24.290 -9.068 67.939 1.00 21.23	C
_	5824 CB HIS B 341	24.945 -8.689 69.274 1.00 21.87	Č
	5827 CG HIS B 341	26.425 -8.874 69.296 1.00 24.32	Č
	5828 ND1 HIS B 341	27.258 -8.283 68.370 1.00 27.26	N
7110141	5550 1.21 IIIO D 541	2,.230 0,203 00,370 1,00 27,20	* 1

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ATOM	5830 CE1 HIS B 341	28.511 -8.619 68.637 1.00 29.23	C
ATOM	5832 NE2 HIS B 341	28.520 -9.394 69.712 1.00 28.26	N
ATOM	5834 CD2 HIS B 341	27.227 -9.569 70.143 1.00 26.81	С
ATOM	5836 C HIS B 341	24.062 -10.587 67.867 1.00 20.61	С
ATOM	5837 O HIS B 341	24.885 -11.326 67.338 1.00 19.93	Ο
ATOM	5838 N ARG B 342	22.923 -11.031 68.383 1.00 20.24	N
ATOM	5840 CA ARG B 342	22.622 -12.446 68.492 1.00 20.26	C
ATOM	5842 CB ARG B 342	21.609 -12.680 69.603 1.00 20.30	С
ATOM	5845 CG ARG B 342	22.281 -12.799 70.960 1.00 21.07	C
ATOM	5848 CD ARG B 342	21.338 -13.108 72.105 1.00 22.73	C
ATOM	5851 NE ARG B 342	21.925 -12.713 73.387 1.00 24.61	N
ATOM	5853 CZ ARG B 342	21.680 -11.569 74.039 1.00 26.32	C
ATOM		20.828 -10.661 73.557 1.00 25.57	N
ATOM	5857 NH2 ARG B 342		N
ATOM	5860 C ARG B 342	22.147 -13.060 67.175 1.00 20.12	C
ATOM	5861 O ARG B 342	22.203 -14.279 67.005 1.00 20.38	Ο
ATOM	5862 N ALA B 343	21.714 -12.209 66.253 1.00 20.25	N
ATOM	5864 CA ALA B 343	21.349 -12.602 64.899 1.00 20.52	C
ATOM	5866 CB ALA B 343	20.282 -11.648 64.333 1.00 20.71	C
ATOM	5870 C ALA B 343	22.542 -12.636 63.954 1.00 20.56	С
ATOM	5871 O ALA B 343	22.363 -12.934 62.781 1.00 20.80	Ο
<b>ATOM</b>	5872 N GLY B 344	23.736 -12.303 64.448 1.00 20.56	N
ATOM	5874 CA GLY B 344	24.962 -12.437 63.681 1.00 20.76	C
ATOM	5877 C GLY B 344	25.405 -11.172 62.972 1.00 21.42	C
ATOM	5878 O GLY B 344	26.286 -11.206 62.121 1.00 20.93	О
ATOM	5879 N LEUB 345	24.792 -10.046 63.313 1.00 22.33	N
ATOM	5881 CA LEU B 345	25.185 -8.778 62.709 1.00 23.03	C
ATOM	5883 CB LEU B 345	24.068 -7.734 62.844 1.00 23.04	C
ATOM	5886 CG LEU B 345	22.727 -8.159 62.246 1.00 22.68	C
ATOM	5888 CD1 LEU B 345	21.729 -7.055 62.440 1.00 23.50	C
ATOM			С
	5896 C LEUB 345	26.477 -8.309 63.369 1.00 23.48	C
ATOM	5897 O LEUB 345	26.695 -8.537 64.568 1.00 23.52	0
ATOM		27.351 -7.700 62.570 1.00 23.84	N
	5900 CA GLN B 346	28.660 -7.277 63.066 1.00 24.25	C
	5902 CB GLN B 346	29.712 -7.209 61.935 1.00 24.57	C
	5905 CG GLN B 346	29.375 -6.362 60.715 1.00 25.35	C
	5908 CD GLN B 346	30.330 -6.587 59.535 1.00 26.53	C
ATOM			0
	5910 NE2 GLN B 346		N
	5913 C GLN B 346	28.566 -5.958 63.843 1.00 24.06	C
	5914 O GLN B 346	27.653 -5.181 63.619 1.00 22.61	0
	5915 N VAL B 347	29.509 -5.752 64.774 1.00 24.61	N
ATOM		29.551 -4.553 65.631 1.00 24.76	C
	5919 CB VAL B 347	30.753 -4.562 66.633 1.00 24.64	C
	5921 CG1 VAL B 347		C
-	5925 CG2 VAL B 347		C
AIOM	5929 C VAL B 347	29.670 -3.285 64.787 1.00 24.58	С

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ATOM	5930	O VALB 347	29.117 -2.264 65.128 1.00 24.21	O
ATOM		N GLU B 348	30.403 -3.373 63.688 1.00 25.11	N
ATOM		CA GLU B 348	30.570 -2.253 62.769 1.00 26.25	C
ATOM		CB GLU B 348	31.514 -2.630 61.611 1.00 26.63	С
ATOM		CG GLU B 348	32.980 -2.792 62.024 1.00 28.25	C
		CD GLU B 348	33.376 -4.218 62.372 1.00 30.73	С
		OE1 GLU B 348	32.478 -5.084 62.504 1.00 32.74	O
		OE2 GLU B 348	34.595 -4.475 62.528 1.00 31.99	O
		C GLU B 348	29.241 -1.768 62.205 1.00 26.52	С
		O GLU B 348	29.132 -0.605 61.856 1.00 27.24	O
ATOM		N PHE B 349	28.261 -2.668 62.091 1.00 26.35	N
ATOM		CA PHE B 349	26.902 -2.359 61.625 1.00 26.53	С
ATOM		CB PHE B 349	26.283 -3.652 61.030 1.00 27.07	С
ATOM		CG PHE B 349	24.955 -3.474 60.284 1.00 27.97	C
		CD1 PHE B 349	24.801 -2.526 59.295 1.00 29.03	С
		CE1 PHE B 349	23.593 -2.410 58.587 1.00 29.29	C
		CZ PHE B 349	22.534 -3.269 58.866 1.00 29.80	C
		CE2 PHE B 349	22.668 -4.231 59.842 1.00 28.08	С
ATOM		CD2 PHE B 349	23.882 -4.345 60.537 1.00 29.40	С
ATOM		C PHE B 349	26.040 -1.845 62.782 1.00 26.01	С
ATOM	5965	O PHE B 349	25.374 -0.808 62.667 1.00 27.32	O
ATOM	5966	N ILE B 350	26.048 -2.565 63.895 1.00 25.04	N
ATOM	5968	CA ILE B 350	25.114 -2.299 64.977 1.00 24.46	C
ATOM	5970	CB ILE B 350	25.220 -3.375 66.089 1.00 24.65	C
<b>ATOM</b>	5972	CG1 ILE B 350	24.795 -4.753 65.561 1.00 25.40	С
ATOM	5975	CD1 ILE B 350	25.391 -5.915 66.342 1.00 24.28	С
ATOM	5979	CG2 ILE B 350	24.372 -2.977 67.316 1.00 23.35	C
_		C ILE B 350	25.370 -0.937 65.588 1.00 23.74	C
ATOM		O ILE B 350	24.456 -0.138 65.735 1.00 24.06	0
ATOM		N ASN B 351	26.615 -0.690 65.959 1.00 23.14	N
ATOM		CA ASN B 351		C
		CB ASN B 351	28.417 0.385 67.280 1.00 23.11	C
ATOM		CG ASN B 351	28.580 -0.413 68.591 1.00 24.24	C
			27.634 -1.013 69.119 1.00 24.68	0
		ND2 ASN B 351		N
		C ASN B 351	26.621 1.827 66.144 1.00 22.25	C
ATOM		O ASN B 351	25.978 2.661 66.758 1.00 21.44	O
ATOM		N PRO B 352	27.011 2.040 64.898 1.00 22.06	N
ATOM		CA PRO B 352	26.659 3.279 64.196 1.00 21.97	C
ATOM		CB PRO B 352	27.300 3.087 62.825 1.00 22.02	C
ATOM		CG PRO B 352	28.358 2.100 63.028 1.00 21.94	C C
		CD PRO B 352	27.840 1.161 64.060 1.00 22.45	C
		C PRO B 352	25.151 3.501 64.048 1.00 22.15 24.700 4.640 64.067 1.00 22.27	0
_		O PROB 352	24.700 4.640 64.067 1.00 22.27 24.383 2.430 63.897 1.00 22.16	N
ATOM		N ILE B 353 CA ILE B 353	22.944 2.571 63.753 1.00 22.41	C
ATOM ATOM		CB ILE B 353	22.320 1.236 63.269 1.00 22.68	C
		CG1 ILE B 353	22.760 0.968 61.826 1.00 23.88	C
AIUM	0019	COLITE D 333	22.100 0.700 01.020 1.00 2J.00	C

ATOM	6022	CD1 ILE B 353	22.267 -0.333 61.234 1.00 24.70	С
ATOM	6026	CG2 ILE B 353	20.799 1.281 63.344 1.00 23.27	С
ATOM	6030		22.330 3.069 65.062 1.00 22.45	C
ATOM	6031	O ILE B 353	21.366 3.850 65.047 1.00 21.42	O
ATOM		N PHE B 354	22.897 2.627 66.187 1.00 22.75	N
ATOM	6034	CA PHE B 354	22.419 3.060 67.503 1.00 23.03	C
<b>ATOM</b>	6036	CB PHE B 354	22.822 2.069 68.618 1.00 23.54	C
ATOM	6039	CG PHE B 354	21.777 0.993 68.874 1.00 23.55	C
ATOM	6040	CD1 PHE B 354	21.786 -0.189 68.142 1.00 22.65	C
<b>ATOM</b>	6042	CE1 PHE B 354	20.841 -1.166 68.358 1.00 22.86	C
<b>ATOM</b>	6044	CZ PHE B 354	19.861 -0.976 69.308 1.00 24.11	C
ATOM	6046	<b>CE2 PHE B 354</b>	19.837 0.206 70.052 1.00 24.26	C
ATOM	6048	CD2 PHE B 354	20.793 1.177 69.830 1.00 23.71	C
ATOM	6050	C PHE B 354	22.879 4.475 67.824 1.00 22.76	C
ATOM	6051	O PHE B 354	22.102 5.260 68.340 1.00 23.11	О
ATOM	6052	N GLU B 355	24.121 4.809 67.500 1.00 22.50	N
ATOM	6054	CA GLU B 355	24.564 6.197 67.547 1.00 22.65	C
ATOM	6056	CB GLUB 355	25.988 6.344 66.980 1.00 23.46	C
ATOM	6059	CG GLUB 355	27.097 6.173 68.008 1.00 25.71	C
ATOM	6062	CD GLUB 355	28.432 5.742 67.416 1.00 29.42	C
ATOM	6063	OE1 GLU B 355	29.424 5.673 68.197 1.00 32.31	О
ATOM	6064	OE2 GLU B 355	28.501 5.470 66.185 1.00 31.81	О
ATOM	6065	C GLU B 355	23.621 7.115 66.761 1.00 22.10	С
ATOM	6066	O GLU B 355	23.160 8.122 67.282 1.00 22.03	О
ATOM	6067	N PHE B 356	23.341 6.767 65.506 1.00 21.38	N
ATOM	6069	CA PHE B 356	22.485 7.588 64.668 1.00 21.28	С
ATOM	6071	CB PHE B 356	22.400 6.997 63.248 1.00 21.46	C
ATOM	6074	CG PHE B 356	21.411 7.703 62.349 1.00 19.88	C
ATOM	6075	CD1 PHE B 356	21.728 8.922 61.765 1.00 20.32	С
ATOM	6077	CE1 PHE B 356		C
ATOM	6079	CZ PHE B 356		C
ATOM	6081	<b>CE2 PHE B 356</b>	19.240 7.769 61.280 1.00 19.42	C
ATOM		CD2 PHE B 356	20.165 7.140 62.093 1.00 18.90	С
ATOM	6085	C PHE B 356	21.083 7.753 65.278 1.00 21.70	C
ATOM			20.522 8.848 65.286 1.00 21.32	О
ATOM	6087	N SER B 357	20.537 6.665 65.818 1.00 22.22	N
ATOM	6089	CA SER B 357	19.198 6.693 66.379 1.00 22.34	C
ATOM	6091	<b>CB SER B 357</b>	18.761 5.297 66.834 1.00 22.15	C
ATOM	6094	OG SER B 357	18.850 4.381 65.770 1.00 20.39	О
ATOM	6096	C SER B 357	19.121 7.674 67.545 1.00 23.09	С
<b>ATOM</b>		O SER B 357	18.152 8.427 67.651 1.00 22.79	О
ATOM		N ARG B 358	20.133 7.681 68.418 1.00 23.94	N
ATOM		CA ARG B 358	20.055 8.569 69.578 1.00 25.01	C
ATOM		CB ARG B 358	20.892 8.095 70.784 1.00 25.27	C
ATOM		CG ARG B 358	22.385 8.167 70.684 1.00 27.29	C
ATOM		CD ARG B 358	23.090 7.636 71.963 1.00 29.36	С
ATOM		NE ARG B 358	23.411 6.218 71.837 1.00 31.12	N
ATOM	6113	CZ ARG B 358	24.583 5.717 71.431 1.00 32.37	C

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	25.612 6.508 71.116 1.00 32.15	N
ATOM 6117 NH2 ARG B 358	24.727 4.395 71.336 1.00 32.81	N
ATOM 6120 C ARG B 358	20.314 10.010 69.171 1.00 24.86	C
ATOM 6121 O ARG B 358	19.812 10.920 69.815 1.00 24.77	0
ATOM 6122 N ALA B 359	21.028 10.213 68.064 1.00 25.00	N
	21.193 11.559 67.510 1.00 25.04	C
	22.292 11.581 66.462 1.00 25.27	С
ATOM 6130 C ALA B 359	19.866 12.069 66.946 1.00 25.27	C
	19.472 13.211 67.213 1.00 24.83	O
ATOM 6132 N MET B 360	19.163 11.205 66.208 1.00 25.58	N
ATOM 6134 CA MET B 360	17.848 11.524 65.692 1.00 26.02	C
ATOM 6136 CB MET B 360	17.311 10.355 64.891 1.00 26.75	C
ATOM 6139 CG MET B 360	17.865 10.264 63.462 1.00 26.69	C
	17.600 11.773 62.530 1.00 26.78	S
ATOM 6143 CE MET B 360	15.878 11.818 62.334 1.00 29.20	С
ATOM 6147 C MET B 360		C
ATOM 6148 O MET B 360		О
ATOM 6149 N ARG B 361		N
	16.062 11.498 69.052 1.00 29.35	C
ATOM 6153 CB ARG B 361	16.202 10.452 70.169 1.00 29.79	С
ATOM 6156 CG ARG B 361	14.909 10.252 70.977 1.00 32.56	C
ATOM 6159 CD ARG B 361	14.982 10.424 72.510 1.00 33.68	C
THOM CICE INDIMED DO	15.990 11.386 72.937 1.00 36.77	N
ATOM 6164 CZ ARG B 361	16.081 11.895 74.152 1.00 39.67	C
	15.210 11.563 75.105 1.00 41.48	N
ATOM 6168 NH2 ARG B 361		N
ATOM 6171 C ARG B 361		C
ATOM 6172 O ARG B 361		О
ATOM 6173 N ARG B 362		N
ATOM 6175 CA ARG B 362	17.754 14.740 70.221 1.00 29.26	C
ATOM 6177 CB ARG B 362	19.255 15.033 70.233 1.00 29.68	C
ATOM 6180 CG ARG B 362	20.021 14.231 71.246 1.00 31.69	С
ATOM 6183 CD ARG B 362	21.494 14.550 71.257 1.00 34.31	C
ATOM 6186 NE ARG B 362	22.297 13.329 71.265 1.00 37.98	N
ATOM 6188 CZ ARG B 362	23.121 12.930 70.302 1.00 39.97	C
ATOM 6189 NH1 ARG B 362		N
ATOM 6192 NH2 ARG B 362		N
ATOM 6195 C ARG B 362	17.060 15.871 69.446 1.00 28.31	C
ATOM 6196 O ARG B 362	16.831 16.967 69.983 1.00 28.38	0
ATOM 6197 N LEU B 363	16.780 15.615 68.178 1.00 26.86	N
ATOM 6199 CA LEU B 363	16.062 16.560 67.347 1.00 26.19	C
ATOM 6201 CB LEU B 363	16.284 16.250 65.863 1.00 26.56	C
ATOM 6204 CG LEU B 363	17.691 16.558 65.383 1.00 25.98	C
ATOM 6206 CD1 LEU B 363	17.832 16.210 63.925 1.00 26.41	C
ATOM 6210 CD2 LEU B 363	17.982 18.007 65.616 1.00 28.05	C
ATOM 6214 C LEU B 363	14.583 16.548 67.632 1.00 25.35	C
ATOM 6215 O LEU B 363	13.912 17.494 67.326 1.00 25.36	O
ATOM 6216 N GLY B 364	14.061 15.456 68.163 1.00 24.96	N

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ATOM		12.648 15.379 68.501 1.00 24.26	C
ATOM	6221 C GLY B 364	11.724 15.691 67.343 1.00 23.80	C
ATOM	6222 O GLY B 364	10.814 16.502 67.481 1.00 24.22	Ο
ATOM	6223 N LEUB 365	11.953 15.056 66.195 1.00 23.27	N
ATOM	6225 CA LEU B 365	11.122 15.300 65.028 1.00 23.05	С
ATOM	6227 CB LEU B 365	11.695 14.622 63.777 1.00 22.95	C
ATOM	6230 CG LEU B 365	13.100 14.889 63.236 1.00 24.40	C
ATOM	6232 CD1 LEU B 365	13.116 14.608 61.771 1.00 26.37	C
ATOM	6236 CD2 LEU B 365	13.574 16.268 63.444 1.00 25.76	С
ATOM	6240 C LEUB 365	9.713 14.754 65.254 1.00 22.55	C
ATOM	6241 O LEUB 365	9.541 13.661 65.776 1.00 21.66	О
ATOM	6242 N ASP B 366	8.716 15.503 64.821 1.00 22.33	N
ATOM	6244 CA ASP B 366	7.357 14.999 64.806 1.00 22.52	C
ATOM		6.358 16.137 65.116 1.00 22.86	C
ATOM	6249 CG ASP B 366	6.347 17.260 64.089 1.00 23.02	C
ATOM	6250 OD1 ASP B 366	6.755 17.051 62.929 1.00 24.65	О
ATOM	6251 OD2 ASP B 366	5.909 18.405 64.382 1.00 23.11	О
ATOM	6252 C ASP B 366	7.066 14.218 63.490 1.00 22.72	С
	6253 O ASP B 366	8.012 13.887 62.722 1.00 23.30	О
ATOM		5.800 13.881 63.262 1.00 21.59	N
ATOM	6256 CA ASP B 367	5.362 13.148 62.071 1.00 21.79	С
ATOM	6258 CB ASP B 367	3.845 12.838 62.134 1.00 22.31	C
ATOM	6261 CG ASP B 367	3.471 11.840 63.205 1.00 23.80	C
ATOM	6262 OD1 ASP B 367	4.366 11.222 63.788 1.00 25.82	О
ATOM	6263 OD2 ASP B 367	2.275 11.591 63.517 1.00 29.95	О
ATOM	6264 C ASP B 367	5.570 13.895 60.760 1.00 21.22	C
ATOM	6265 O ASP B 367	5.936 13.290 59.780 1.00 21.08	О
<b>ATOM</b>	6266 N ALA B 368	5.231 15.178 60.725 1.00 21.32	N
<b>ATOM</b>	6268 CA ALA B 368	5.378 16.003 59.521 1.00 21.50	C
ATOM		4.779 17.356 59.731 1.00 21.08	С
ATOM	6274 C ALA B 368	6.861 16.145 59.141 1.00 22.22	C
<b>ATOM</b>	6275 O ALA B 368	7.217 16.110 57.970 1.00 22.94	0
ATOM	6276 N GLU B 369	7.724 16.275 60.140 1.00 21.58	N
ATOM		9.144 16.389 59.878 1.00 21.28	C
<b>ATOM</b>		9.855 16.904 61.119 1.00 20.76	C
<b>ATOM</b>		9.515 18.345 61.390 1.00 20.19	C
	6286 CD GLU B 369	9.953 18.786 62.760 1.00 22.59	C
ATOM	6287 OE1 GLU B 369	10.285 19.973 62.899 1.00 22.51	O
ATOM		9.964 17.950 63.697 1.00 22.21	0
ATOM		9.804 15.099 59.373 1.00 21.09	C
ATOM		10.580 15.172 58.454 1.00 20.01	O
	6291 N TYR B 370	9.520 13.943 59.994 1.00 21.24	N
ATOM	6293 CA TYR B 370	9.988 12.643 59.473 1.00 21.31	C
ATOM		9.540 11.471 60.364 1.00 20.77	C
ATOM		10.539 11.079 61.446 1.00 19.87	C
ATOM		10.303 11.338 62.823 1.00 20.47	C
	6301 CE1 TYR B 370	11.250 10.951 63.809 1.00 18.80	C
ATOM	6303 CZ TYR B 370	12.420 10.325 63.377 1.00 20.52	C

ATOM	6304 OH TYR B 370	13.403 9.900 64.210 1.00 25.00	Ο
ATOM	6306 CE2 TYR B 370	12.628 10.059 62.054 1.00 19.04	С
ATOM	6308 CD2 TYR B 370	11.695 10.431 61.107 1.00 17.94	C
ATOM	6310 C TYR B 370	9.504 12.422 58.020 1.00 22.05	С
ATOM	6311 O TYR B 370	10.280 12.030 57.132 1.00 22.17	Ο
ATOM	6312 N ALAB 371	8.244 12.730 57.751 1.00 22.06	N
ATOM	6314 CA ALA B 371	7.698 12.421 56.437 1.00 22.69	C
ATOM	6316 CB ALA B 371	6.182 12.587 56.404 1.00 22.87	Č
ATOM	6320 C ALA B 371	8.359 13.261 55.371 1.00 22.57	C
ATOM	6321 O ALA B 371	8.706 12.767 54.311 1.00 23.55	Ō
ATOM	6322 N LEUB 372		N
ATOM	6324 CA LEU B 372	9.180 15.440 54.698 1.00 21.26	С
ATOM	6326 CB LEU B 372	9.105 16.859 55.216 1.00 21.25	Ċ
ATOM	6329 CG LEU B 372	7.689 17.431 55.202 1.00 18.39	C
ATOM	6331 CD1 LEU B 372		C
	6335 CD2 LEU B 372		Č
	6339 C LEUB 372		C
ATOM	6340 O LEUB 372	11.077 15.043 53.328 1.00 21.68	Ō
ATOM	6341 N LEUB 373	11.323 14.708 55.548 1.00 21.56	. N
ATOM		12.721 14.252 55.409 1.00 21.75	C
ATOM		13.334 13.852 56.743 1.00 22.45	Č
ATOM	6348 CG LEU B 373	14.494 14.616 57.324 1.00 25.72	Č
ATOM			C
	6354 CD2 LEU B 373		Č
ATOM			C
ATOM	6359 O LEUB 373	13.737 12.942 53.702 1.00 19.81	Ö
ATOM	6360 N ILE B 374	11.886 12.137 54.642 1.00 21.08	N
ATOM ATOM	6362 CA ILE B 374	11.846 10.939 53.817 1.00 20.57	C
	6364 CB ILE B 374		Č
ATOM ATOM		11.229 9.286 55.577 1.00 20.95	Č
	6369 CD1 ILE B 374	10.125 8.645 56.372 1.00 22.08	Č
ATOM	6373 CG2 ILE B 374	10.306 8.997 53.280 1.00 20.41	Č
ATOM	6377 C ILE B 374	11.633 11.339 52.344 1.00 21.21	C
ATOM ATOM		12.390 10.936 51.490 1.00 22.26	Ö
ATOM		10.633 12.154 52.046 1.00 21.55	N
ATOM		10.410 12.616 50.662 1.00 21.80	C
ATOM		9.202 13.536 50.590 1.00 22.06	C
ATOM		11.635 13.314 50.077 1.00 21.85	Č
ATOM		11.967 13.118 48.893 1.00 21.92	Ö
ATOM		12.318 14.114 50.897 1.00 21.50	N
ATOM		13.541 14.782 50.457 1.00 21.19	C
ATOM		14.041 15.802 51.532 1.00 20.88	č
ATOM		13.075 16.989 51.633 1.00 21.76	C
ATOM		13.262 17.836 52.954 1.00 23.09	Č
	6402 CG2 ILE B 376	15.469 16.325 51.249 1.00 18.77	Č
ATOM		14.607 13.720 50.128 1.00 21.39	c
ATOM		15.337 13.852 49.181 1.00 21.54	Ö
ATOM		14.676 12.672 50.929 1.00 21.99	N
AIOM	OTO II ASII D 3//	17.0/0 12.0/2 30.727 1.00 21.77	1.4

<b>ATOM</b>	6410	CA ASN B 377	15.626 11.580 50.735 1.00 21.62	С
<b>ATOM</b>	6412	CB ASN B 377	15.584 10.615 51.929 1.00 21.16	С
ATOM	6415	CG ASN B 377	15.584 10.615 51.929 1.00 21.16 16.707 9.585 51.892 1.00 22.85	С
			17.801 9.787 52.439 1.00 26.20	0
ATOM	6417	ND2 ASN B 377	16.451 8.492 51.231 1.00 23.87	N
<b>ATOM</b>	6420	C ASN B 377	15.384 10.825 49.426 1.00 21.04	C
ATOM	6421	O ASN B 377	16.333 10.529 48.695 1.00 21.12	0
<b>ATOM</b>	6422	N ILE B 378	14.125 10.537 49.136 1.00 20.01	N
<b>ATOM</b>	6424	CA ILE B 378	13.728 9.918 47.866 1.00 20.25	C
ATOM	6426	CB ILE B 378	12.192 9.710 47.841 1.00 20.41	C
ATOM	6428	CG1 ILE B 378	11.834 8.657 48.899 1.00 21.58	C
			10.412 8.370 49.038 1.00 23.80	C
			11.714 9.248 46.466 1.00 20.06	C
<b>ATOM</b>	6439	C ILE B 378	14.164 10.713 46.655 1.00 20.30	C
<b>ATOM</b>	6440	O ILE B 378	14.673 10.146 45.685 1.00 20.64	O
<b>ATOM</b>	6441	N PHE B 379	13.975 12.032 46.688 1.00 20.97	N
ATOM	6443	CA PHE B 379	14.327 12.868 45.533 1.00 20.85	С
<b>ATOM</b>	6445	CB PHE B 379	13.307 13.978 45.325 1.00 21.03	С
ATOM	6448	CG PHE B 379	11.938 13.483 45.028 1.00 18.73	С
ATOM	6449	CD1 PHE B 379	10.895 13.715 45.904 1.00 19.42	C
ATOM	6451	CE1 PHE B 379	9.595 13.260 45.618 1.00 18.25	С
<b>ATOM</b>	6453	CZ PHE B 379	9.358 12.588 44.424 1.00 19.28	C
ATOM	6455	CE2 PHE B 379	10.394 12.365 43.550 1.00 19.35	С
<b>ATOM</b>	6457	CD2 PHE B 379	11.675 12.824 43.848 1.00 20.53	C
ATOM	6459	C PHE B 379	15.734 13.437 45.618 1.00 21.55	C
<b>ATOM</b>	6460	O PHE B 379	15.928 14.630 45.451 1.00 21.95	Ο
ATOM	6461	N SER B 380	16.716 12.566 45.849 1.00 22.01	N
<b>ATOM</b>	6463	CA SER B 380	18.141 12.921 45.766 1.00 22.48	С
<b>ATOM</b>	6465	CB SER B 380	18.977 12.086 46.752 1.00 22.20	С
<b>ATOM</b>	6468	OG SER B 380	18.295 11.940 47.977 1.00 21.09	Ο
<b>ATOM</b>	6470	C SER B 380	18.678 12.677 44.389 1.00 22.12	С
<b>ATOM</b>	6471	O SER B 380	18.734 11.575 43.966 1.00 22.42	O
<b>ATOM</b>	6472	N ALA B 381	19.158 13.709 43.728 1.00 24.24	N
<b>ATOM</b>	6474	CA ALA B 381	19.547 13.663 42.304 1.00 24.67	C
<b>ATOM</b>	6476	CB ALA B 381	19.458 15.063 41.711 1.00 24.77	С
<b>ATOM</b>	6480	C ALA B 381	20.937 13.107 42.055 1.00 25.40	С
ATOM	6481	O ALA B 381	21.322 12.885 40.900 1.00 26.89	Ο
ATOM	6482	N ASP B 382	21.715 12.895 43.110 1.00 24.87	N
ATOM	6484	CA ASP B 382	23.031 12.317 42.942 1.00 24.87	С
ATOM	6486	CB ASP B 382	23.974 12.947 43.964 1.00 25.09	С
ATOM	6489	CG ASP B 382	23.696 12.451 45.357 1.00 26.78	C
ATOM	6490	OD1 ASP B 382	22.509 12.291 45.704 1.00 28.37	O
ATOM	6491	OD2 ASP B 382	24.589 12.135 46.160 1.00 28.69	Ο
ATOM	6492	C ASP B 382	23.066 10.776 43.074 1.00 24.13	С
ATOM	6493	O ASP B 382	24.125 10.200 43.316 1.00 24.36	O
	6494		21.928 10.095 42.957 1.00 23.11	N
		CA ARG B 383	21.933 8.634 43.049 1.00 21.78	C
ATOM	6498	CB ARG B 383	20.518 8.111 43.232 1.00 21.83	С

ATOM 6501 CG ARG B 383	3 19.814 8.623 44.440 1.00 20.99	С
ATOM 6504 CD ARG B 383	3 20.545 8.433 45.741 1.00 20.33	Č
ATOM 6507 NE ARG B 383		N
ATOM 6509 CZ ARG B 383		C
ATOM 6510 NH1 ARG B 38		N
ATOM 6513 NH2 ARG B 38		N
ATOM 6516 C ARG B 383		C
ATOM 6517 O ARG B 383		
ATOM 6518 N PROB 384	= - 1 0.00 1 10.7 US 1.00 21.01	O N
ATOM 6519 CA PRO B 384		
ATOM 6521 CB PRO B 384		C
ATOM 6524 CG PRO B 384		C
ATOM 6527 CD PRO B 384		C C
ATOM 6530 C PRO B 384		
ATOM 6531 O PROB 384	21.321 5.562 39.988 1.00 19.38	C
ATOM 6532 N ASN B 385		0
ATOM 6534 CA ASN B 385		N
ATOM 6536 CB ASN B 385		C
ATOM 6539 CG ASN B 385		C
	22.846 2.358 38.322 1.00 23.24	C
ATOM 6541 ND2 ASN B 385	23.634 3.212 36.422 1.00 19.17	0
ATOM 6544 C ASN B 385		N
ATOM 6545 O ASN B 385		C
ATOM 6546 N VAL B 386		0
ATOM 6548 CA VAL B 386	1.00 10.05	N
ATOM 6550 CB VAL B 386	1100 10.00	C
ATOM 6552 CG1 VAL B 386	2100 17,77	C
ATOM 6556 CG2 VAL B 386	111111111111111111111111111111111111111	C
ATOM 6560 C VALB 386	1.00 10.15	C
ATOM 6561 O VALB 386	19.667 9.161 36.023 1.00 18.53	C
ATOM 6562 N GLN B 387	20.736 9.692 35.730 1.00 18.62 18.632 9.112 35.179 1.00 18.75	0
	18.632 9.112 35.179 1.00 18.75	N
ATOM 6566 CB GLN B 387	18.670 9.694 33.829 1.00 18.96	С
		C
ATOM 6572 CD GLN B 387	18.514 7.502 32.605 1.00 23.43	C
ATOM 6573 OEI GLN B 387	17.662 6.666 31.704 1.00 27.31	C
ATOM 6574 NE2 GLN B 387	17.705 6.860 30.486 1.00 33.18	O
ATOM 6577 C GLN B 387	16.866 5.751 32.272 1.00 26.97	N
ATOM 6578 O GLN B 387	18.188 11.128 33.743 1.00 18.62	С
ATOM 6579 N GLUB 388	18.598 11.841 32.854 1.00 17.67	O
ATOM 6581 CA GLUB 388	17.328 11.555 34.672 1.00 18.51	N
ATOM 6583 CB GLUB 388	16.893 12.948 34.726 1.00 18.71	С
ATOM 6586 CG GLUB 388	15.406 13.064 34.376 1.00 19.03	C
ATOM 6589 CD GLUB 388	15.119 12.747 32.925 1.00 20.30	C
ATOM 6590 OEI GLUB 388	13.677 12.993 32.593 1.00 21.79	С
ATOM 6591 OE2 GLU B 388	12.907 12.005 32.582 1.00 24.61	Ο
ATOM 6592 C GLUB 388	13.324 14.167 32.345 1.00 20.18	O
ATOM 6593 O GLUB 388	17.173 13.573 36.091 1.00 18.20	C
11 011 0093 O GLU B 388	16.247 13.948 36.787 1.00 17.43	Ο

6594 N PRO B 389	18.453 13.702 36.462 1.00 18.44	N
6595 CA PRO B 389	18.815 14.248 37.773 1.00 18.55	С
	20.346 14.213 37.776 1.00 19.60	C
	20.783 13.940 36.330 1.00 17.71	C
	19.641 13.313 35.664 1.00 17.77	C
	18.303 15.665 38.029 1.00 19.06	C
	17.938 15.957 39.172 1.00 20.06	О
	18.252 16.525 37.018 1.00 18.94	N
* * *	17.707 17.878 37.178 1.00 18.72	C
	16.244 17.849 37.526 1.00 18.89	С
	15.744 18.568 38.368 1.00 19.36	Ο
	15.545 16.955 36.876 1.00 19.62	N
	14.146 16.715 37.160 1.00 20.15	С
		C
		С
	11.492 16.493 35.187 1.00 29.28	C
	10.232 15.812 34.933 1.00 34.22	N
	9.037 16.308 35.165 1.00 37.37	C
	8.862 17.557 35.639 1.00 37.23	N
	7.999 15.534 34.887 1.00 39.85	N
	13.904 16.196 38.573 1.00 19.58	C
	12.973 16.602 39.248 1.00 20.55	Ο
	14.766 15.327 39.057 1.00 19.61	N
	14.648 14.844 40.428 1.00 19.35	С
	15.645 13.683 40.694 1.00 19.17	C
6645 CG1 VAL B 392	15.677 13.306 42.168 1.00 17.59	C
	15.276 12.483 39.856 1.00 19.32	C
6653 C VALB 392	14.889 15.984 41.415 1.00 19.99	С
6654 O VAL B 392	14.266 16.037 42.462 1.00 19.77	Ο
6655 N GLUB 393	15.814 16.880 41.102 1.00 21.29	N
6657 CA GLUB 393	16.120 17.986 41.998 1.00 22.72	C
6659 CB GLU B 393	17.387 18.707 41.562 1.00 23.91	C
6662 CG GLU B 393	17.816 19.798 42.531 1.00 27.69	С
6665 CD GLU B 393	19.290 20.112 42.440 1.00 33.96	С
6666 OE1 GLU B 393	19.993 19.930 43.467 1.00 40.25	0
6667 OE2 GLU B 393	19.751 20.546 41.346 1.00 37.57	O
6668 C GLU B 393	14.975 18.957 42.032 1.00 22.64	C
6669 O GLU B 393	14.656 19.485 43.076 1.00 24.10	Ο
6670 N ALA B 394	14.320 19.166 40.900 1.00 22.81	N
	13.176 20.066 40.863 1.00 22.69	C
	12.795 20.396 39.450 1.00 22.06	C
	11.981 19.467 41.617 1.00 23.03	C
6679 O ALA B 394	11.202 20.231 42.181 1.00 23.92	Ο
6680 N LEUB 395	11.816 18.131 41.634 1.00 22.54	N
6682 CA LEUB 395	10.742 17.525 42.445 1.00 21.91	C
6684 CB LEU B 395	10.406 16.116 41.975 1.00 22.77	С
6687 CG LEUB 395	9.971 15.956 40.516 1.00 24.05	C
6689 CD1 LEU B 395	9.943 14.498 40.103 1.00 27.97	С
	6595 CA PRO B 389 6597 CB PRO B 389 6600 CG PRO B 389 6603 CD PRO B 389 6606 C PRO B 389 6607 O PRO B 389 6608 N GLY B 390 6610 CA GLY B 390 6613 C GLY B 390 6614 O GLY B 390 6615 N ARG B 391 6617 CA ARG B 391 6619 CB ARG B 391 6622 CG ARG B 391 6628 NE ARG B 391 6628 NE ARG B 391 6630 CZ ARG B 391 6631 NH1 ARG B 391 6634 NH2 ARG B 391 6637 C ARG B 391 6638 O ARG B 391 6639 N VAL B 392 6641 CA VAL B 392 6641 CA VAL B 392 6645 CG1 VAL B 392 6645 CG1 VAL B 392 6655 C VAL B 392 6656 CG GLU B 393 6666 OE1 GLU B 393 6667 OE2 GLU B 393 6666 OE1 GLU B 393 6667 OE2 GLU B 393 6668 C GLU B 393 6669 O GLU B 393 6669 O GLU B 393 6667 OE2 GLU B 393 6668 C GLU B 393 6669 O GLU B 393 6667 OE2 GLU B 393 6667 CA ALA B 394 6678 C ALA B 394 6679 O ALA B 394	6697 CB PRO B 389 6608 N GLY B 390 6610 CA GLY B 390 6611 CA GLY B 390 6615 N ARG B 391 66167 CA ARG B 391 66169 CB ARG B 391 6620 CG ARG B 391 6620 CD ARG B 391 6631 NH1 ARG B 391 6632 CZ ARG B 391 6634 NH2 ARG B 391 6635 N CARG B 391 6636 CZ ARG B 391 6636 CZ ARG B 391 6637 C ARG B 391 6638 O ARG B 391 6639 N VAL B 392 6640 CG VAL B 392 6655 CD GLU B 393 6666 CG GLU B 393 6667 CA ALA B 394 6678 C ALA B 394 6679 O ALA B 394 6679 O ALA B 394 6679 C ALA B 394 6670 CG LEU B 395 6682 CG LEU B 395 6684 CG LEU B 395 6685 CG LEU B 395 6687 CG LEU B 395 6687 CG LEU B 395 6686 CG LEU B 395 6687 CG LEU B 395 6688 CG LEU B 395 6687 CG LEU B 395 6688 CG LEU B 395 6688 CG LEU B 395 6686 CG LEU B 395 6687 CG LEU B 395 6687 CG LEU B 395 6687 CG LEU B 395 6688 CG LEU B 395 6689 CG LEU B 395 6689 CG LEU B 395 6680 CG LEU B 395 6681 CG LEU B 395 6682 CG LEU B 395 66860 CG LEU B 395 6687 CG LEU B 395 6688 CG LEU B 395 6689 CG LEU B 395 6680 CG LE

ATOM	6693 CD2 LEU B 395	8.618 16.573 40.261 1.00 25.94	С
ATOM	6697 C LEUB 395	11.065 17.528 43.939 1.00 21.66	С
ATOM		10.176 17.494 44.774 1.00 22.24	O
ATOM		12.342 17.606 44.282 1.00 21.70	N
ATOM			C
ATOM			C
ATOM	6706 CG GLN B 396		C
ATOM	6709 CD GLN B 396		C
ATOM		16.814 16.357 47.872 1.00 21.58	О
ATOM		16.853 18.307 46.880 1.00 19.04	N
ATOM		12.512 18.999 46.310 1.00 22.42	C
ATOM		12.311 19.083 47.531 1.00 22.74	О
ATOM		12.609 20.059 45.515 1.00 21.79	N
ATOM		12.642 21.406 46.061 1.00 22.10	С
ATOM			С
	6723 CG GLN B 397		С
ATOM	6726 CD GLN B 397	12.712 24.823 44.098 1.00 27.36	С
		13.741 24.712 43.446 1.00 29.73	О
ATOM			N
ATOM		11.399 21.804 46.892 1.00 21.10	C
ATOM			Ο
ATOM	6733 N PRO B 398		N
ATOM	6734 CA PRO B 398	8.978 21.775 47.170 1.00 20.48	C
ATOM		7.853 21.157 46.285 1.00 20.46	C
	6739 CG PRO B 398	8.399 21.083 44.907 1.00 20.28	C
ATOM		9.897 20.933 45.078 1.00 20.66	C
ATOM	6745 C PROB 398	8.955 21.149 48.595 1.00 20.52	С
ATOM	6746 O PRO B 398	8.406 21.758 49.513 1.00 19.86	0
ATOM	6747 N TYR B 399	9.513 19.947 48.736 1.00 19.95	N
ATOM	6749 CA TYR B 399	9.694 19.267 50.017 1.00 19.66	C
ATOM	6751 CB TYR B 399	10.095 17.794 49.771 1.00 19.96	С
ATOM	6754 CG TYR B 399	8.992 17.060 49.082 1.00 20.60	C
	6755 CD1 TYR B 399	9.067 16.731 47.722 1.00 21.38	C
	6757 CE1 TYR B 399	7.972 16.080 47.079 1.00 20.43	C
ATOM	6759 CZ TYR B 399	6.844 15.797 47.808 1.00 18.83	C
	6760 OH TYR B 399	5.769 15.177 47.250 1.00 21.91	0
ATOM	6762 CE2 TYR B 399	6.764 16.139 49.136 1.00 18.87	C
ATOM	6764 CD2 TYR B 399	7.815 16.777 49.758 1.00 18.80	C
ATOM	6766 C TYR B 399	10.702 19.951 50.936 1.00 19.16	C
ATOM	6767 O TYR B 399	10.465 20.049 52.148 1.00 18.16	0
	6768 N VALB 400	11.812 20.431 50.376 1.00 18.94	N
	6770 CA VALB 400	12.788 21.216 51.140 1.00 18.36	C
	6772 CB VAL B 400	14.078 21.510 50.338 1.00 18.34	C
	6774 CG1 VAL B 400	15.057 22.361 51.158 1.00 17.60	C
	6778 CG2 VAL B 400	14.805 20.218 49.978 1.00 18.78	C
ATOM	6782 C VALB 400	12.126 22.509 51.633 1.00 19.10	C
ATOM	6783 O VALB 400	12.266 22.901 52.793 1.00 18.63	0
ATOM	6784 N GLUB 401	11.363 23.137 50.752 1.00 19.95	N

6786 CA GLU B 401	10.660 24.396 51.040 1.00 20.81	С
6788 CB GLU B 401	9.980 24.887 49.769 1.00 21.64	С
6791 CG GLUB 401	9.504 26.324 49.799 1.00 27.75	С
6794 CD GLUB 401	10.501 27.293 49.155 1.00 36.68	С
6795 OE1 GLU B 401	10.588 28.481 49.617 1.00 38.68	O
6796 OE2 GLU B 401	11.197 26.868 48.179 1.00 41.81	0
6797 C GLU B 401		C
		. 0
		N
		С
6803 CB ALA B 402	6.939 21.709 52.631 1.00 19.65	С
6807 C ALA B 402	8.477 22.517 54.406 1.00 19.45	С
6808 O ALA B 402	7.937 22.861 55.450 1.00 19.63	Ο
6809 N LEUB 403	9.602 21.803 54.382 1.00 18.88	N
		С
6813 CB LEU B 403	11.403 20.485 55.442 1.00 18.51	С
		С
6818 CD1 LEU B 403		С
6822 CD2 LEU B 403	13.053 18.855 56.391 1.00 17.18	С
6826 C LEU B 403	10.864 22.799 56.222 1.00 19.30	С
6827 O LEU B 403	10.836 22.962 57.445 1.00 19.32	O
6828 N LEUB 404	11.349 23.710 55.385 1.00 18.83	N
6830 CA LEUB 404	11.908 24.971 55.893 1.00 19.83	C
6832 CB LEUB 404	12.582 25.758 54.769 1.00 19.82	C
6835 CG LEU B 404	13.162 27.133 55.082 1.00 21.43	С
6837 CD1 LEU B 404	14.160 27.114 56.223 1.00 21.67	С
6841 CD2 LEU B 404	13.827 27.664 53.830 1.00 23.49	С
6845 C LEU B 404	10.814 25.826 56.544 1.00 20.14	C
6846 O LEU B 404	10.966 26.280 57.675 1.00 19.85	O
		N
		С
6851 CB SER B 405	7.494 26.874 55.286 1.00 20.99	С
6854 OG SER B 405	7.940 27.728 54.257 1.00 22.98	O
		С
6857 O SER B 405	7.627 26.881 58.513 1.00 20.94	0
6858 N TYR B 406	7.848 24.832 57.629 1.00 21.51	N
		C
		C
		С
		C
		C
	5.221 20.429 61.607 1.00 26.80	C
	4.665 19.720 62.646 1.00 26.38	Ο
	6.597 20.568 61.566 1.00 26.07	C
		С
	8.160 24.280 60.035 1.00 21.46	С
	7.628 24.611 61.082 1.00 20.76	Ο
6879 N THR B 407	9.479 24.056 59.935 1.00 22.12	N
	6788 CB GLU B 401 6791 CG GLU B 401 6794 CD GLU B 401 6795 OE1 GLU B 401 6796 OE2 GLU B 401 6797 C GLU B 401 6798 O GLU B 401 6799 N ALA B 402 6801 CA ALA B 402 6803 CB ALA B 402 6807 C ALA B 402 6809 N LEU B 403 6811 CA LEU B 403 6811 CA LEU B 403 6813 CB LEU B 403 6816 CG LEU B 403 6818 CD1 LEU B 403 6822 CD2 LEU B 403 6826 C LEU B 403 6827 O LEU B 404 6830 CA LEU B 404 6831 CD1 LEU B 404 6832 CB LEU B 404 6835 CG LEU B 404 6836 CA LEU B 404 6837 CD1 LEU B 404 6841 CD2 LEU B 404 6845 C LEU B 404 6846 O LEU B 404 6847 N SER B 405 6851 CB SER B 405 6854 OG SER B 405 6855 C SER B 405 6856 C TYR B 406 6866 CD1 TYR B 406 6866 CD1 TYR B 406 6868 CE1 TYR B 406	6791 CG GLU B 401 6794 CD GLU B 401 6795 OE1 GLU B 401 6796 OE2 GLU B 401 6797 C GLU B 401 6798 O GLU B 401 6798 O GLU B 401 6799 N ALA B 402 6801 CA ALA B 402 6807 C ALA B 402 6808 O ALA B 402 6809 N LEU B 403 6811 CA LEU B 403 6811 CA LEU B 403 6811 CA LEU B 403 6816 CG LEU B 403 6816 CG LEU B 403 6816 CG LEU B 403 6818 CD1 LEU B 403 6822 CD2 LEU B 403 6822 CD2 LEU B 403 6826 C LEU B 403 6827 C LEU B 404 6830 CA LEU B 404 6830 CA LEU B 404 6831 CD1 LEU B 404 6832 CB LEU B 404 6836 CA LEU B 404 6836 CA LEU B 404 6837 CD1 LEU B 404 6836 CA LEU B 404 6837 CD1 LEU B 404 6836 CG LEU B 404 6837 CD1 LEU B 404 6836 CD1 TYR B 406 6866 CD1 TYR B 406 6866 CD1 TYR B 406 6877 C TYR B 406 6878 O TYR B 406

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10.380 24.170 61.104 1.00 22.52 C ATOM 6881 CA THR B 407 11.845 23.693 60.845 1.00 22.07 C ATOM 6883 CB THR B 407 12.375 24.291 59.659 1.00 21.27 O ATOM 6885 OG1 THR B 407 11.918 22.218 60.585 1.00 21.87 C ATOM 6887 CG2 THR B 407 10.423 25.587 61.628 1.00 23.40 ATOM 6891 C THR B 407 O 10.545 25.776 62.818 1.00 23.34 ATOM 6892 O THR B 407 10.318 26.566 60.730 1.00 24.83 N ATOM 6893 N ARG B 408 10.251 27.989 61.095 1.00 26.16 C ATOM 6895 CA ARG B 408 C 10.133 28.857 59.849 1.00 26.47 ATOM 6897 CB ARG B 408 C 11.422 29.169 59.213 1.00 29.07 ATOM 6900 CG ARG B 408  $\mathbf{C}$ 11.316 30.145 58.080 1.00 33.02 ATOM 6903 CD ARG B 408 N 12.639 30.395 57.520 1.00 36.59 ATOM 6906 NE ARG B 408 12.875 30.989 56.355 1.00 39.86 C ATOM 6908 CZ ARG B 408 11.870 31.415 55.590 1.00 40.48 N ATOM 6909 NH1 ARG B 408 14.138 31.162 55.955 1.00 41.20 N ATOM 6912 NH2 ARG B 408  $\mathbf{C}$ 9.046 28.312 61.947 1.00 26.90 ATOM 6915 C ARG B 408 9.115 29.145 62.856 1.00 26.25 0 ATOM 6916 O ARG B 408 N 7.925 27.687 61.596 1.00 27.89 ATOM 6917 N ILE B 409 C ATOM 6919 CA ILE B 409 6.657 27.927 62.273 1.00 28.59 5.500 27.609 61.305 1.00 28.57 C ATOM 6921 CB ILE B 409 5.513 28.615 60.148 1.00 27.22 C ATOM 6923 CG1 ILE B 409 4.730 28.171 58.934 1.00 27.40 C ATOM 6926 CD1 ILE B 409 C 4.154 27.569 62.041 1.00 28.50 ATOM 6930 CG2 ILE B 409  $\mathbf{C}$ ATOM 6934 C ILE B 409 6.551 27.138 63.583 1.00 29.57 5.997 27.639 64.549 1.00 30.01 O ATOM 6935 O ILE B 409 7.121 25.939 63.631 1.00 30.86 N ATOM 6936 N LYS B 410 6.988 25.066 64.797 1.00 32.21 C ATOM 6938 CA LYS B 410 C 7.166 23.588 64.418 1.00 32.45 ATOM 6940 CB LYS B 410 C ATOM 6943 CG LYS B 410 8.221 22.814 65.260 1.00 33.99  $\mathbf{C}$ 8.114 21.286 65.125 1.00 34.20 ATOM 6946 CD LYS B 410 8.522 20.586 66.421 1.00 35.09 C ATOM 6949 CE LYS B 410 N 8.397 19.084 66.286 1.00 36.30 ATOM 6952 NZ LYS B 410 C 7.941 25.437 65.930 1.00 33.27 ATOM 6956 C LYS B 410 ATOM 6957 O LYS B 410 7.521 25.534 67.095 1.00 33.79 0 N ATOM 6958 N ARG B 411 9.222 25.606 65.609 1.00 34.33 10.206 26.083 66.585 1.00 35.18 ATOM 6960 CA ARG B 411 C C 11.248 25.004 66.924 1.00 35.80 ATOM 6962 CB ARG B 411 10.683 23.741 67.611 1.00 38.53 C ATOM 6965 CG ARG B 411 10.853 23.665 69.160 1.00 42.62 C ATOM 6968 CD ARG B 411 11.101 22.280 69.612 1.00 46.02 N ATOM 6971 NE ARG B 411 12.300 21.662 69.621 1.00 47.66 ATOM 6973 CZ ARG B 411 C 13.408 22.293 69.223 1.00 48.31 N ATOM 6974 NH1 ARG B 411 12.393 20.401 70.043 1.00 48.06 N ATOM 6977 NH2 ARG B 411 ATOM 6980 C ARG B 411 10.872 27.325 66.019 1.00 34.97 C ATOM 6981 O ARG B 411 11.978 27.258 65.483 1.00 34.95 0 10.201 28.469 66.141 1.00 35.00 ATOM 6982 N PRO B 412 N ATOM 6983 CA PRO B 412 10.704 29.715 65.549 1.00 34.89 C ATOM 6985 CB PRO B 412 9.532 30.689 65.734 1.00 34.62 C

ATOM 6988 CG PRO B 412	8.753 30.151 66.866 1.00 34.16	С
ATOM 6991 CD PRO B 412	8.924 28.675 66.855 1.00 34.87	Ċ
ATOM 6994 C PROB 412	11.961 30.253 66.217 1.00 35.11	C
ATOM 6995 O PRO B 412		0
ATOM 6996 N GLN B 413	12.345 29.710 67.373 1.00 35.40	N
ATOM 6998 CA GLN B 413	13.527 30.198 68.087 1.00 35.71	С
ATOM 7000 CB GLN B 413	13.146 30.691 69.495 1.00 35.93	C
ATOM 7003 CG GLN B 413	12.139 31.862 69.503 1.00 36.43	C
ATOM 7006 CD GLN B 413	12.742 33.189 69.037 1.00 37.27	C
ATOM 7007 OE1 GLN B 413	12.480 33.649 67.918 1.00 37.13	0
ATOM 7008 NE2 GLN B 413	13.538 33.812 69.901 1.00 38.43	N
ATOM 7011 C GLN B 413	14.677 29.183 68.151 1.00 35.33	С
ATOM 7012 O GLN B 413	15.675 29.438 68.820 1.00 35.84	O
ATOM 7013 N ASP B 414	14.544 28.049 67.461 1.00 34.73	N
ATOM 7015 CA ASP B 414	15.691 27.174 67.172 1.00 34.14	C
ATOM 7017 CB ASP B 414	15.466 25.727 67.632 1.00 34.43	C
ATOM 7020 CG ASP B 414	16.752 24.886 67.574 1.00 35.47	C
ATOM 7021 OD1 ASP B 414	17.799 25.376 67.085 1.00 36.59	Ο
ATOM 7022 OD2 ASP B 414	16.822 23.727 68.025 1.00 37.73	0
ATOM 7023 C ASP B 414	15.953 27.165 65.689 1.00 32.85	С
ATOM 7024 O ASP B 414	15.444 26.313 64.973 1.00 33.10	O
ATOM 7025 N GLN B 415	16.767 28.096 65.230 1.00 31.49	N
ATOM 7027 CA GLN B 415	17.013 28.245 63.801 1.00 30.71	С
ATOM 7029 CB GLN B 415	17.546 29.646 63.508 1.00 31.50	C
ATOM 7032 CG GLN B 415		C
ATOM 7035 CD GLN B 415	17.412 31.699 62.033 1.00 35.70	С
ATOM 7036 OE1 GLN B 415	16.661 32.462 61.413 1.00 37.83	Ο
ATOM 7037 NE2 GLN B 415	18.568 32.099 62.579 1.00 35.86	N
ATOM 7040 C GLN B 415	17.974 27.209 63.234 1.00 28.90	C
ATOM 7041 O GLN B 415	18.068 27.069 62.026 1.00 29.27	Ο
ATOM 7042 N LEU B 416	18.673 26.474 64.084 1.00 27.28	N
ATOM 7044 CA LEU B 416	19.594 25.440 63.609 1.00 26.89	С
ATOM 7046 CB LEU B 416	20.804 25.382 64.523 1.00 27.08	С
ATOM 7049 CG LEU B 416		С
ATOM 7051 CD1 LEU B 416	22.711 26.643 65.452 1.00 26.65	C
ATOM 7055 CD2 LEU B 416	21.777 27.334 63.233 1.00 25.68	С
ATOM 7059 C LEU B 416	18.987 24.057 63.457 1.00 26.56	С
ATOM 7060 O LEUB 416	19.645 23.137 63.022 1.00 27.07	0
ATOM 7061 N ARG B 417	17.714 23.921 63.787 1.00 25.89	N
ATOM 7063 CA ARG B 417	16.989 22.667 63.651 1.00 25.07	C
ATOM 7065 CB ARG B 417	15.575 22.910 64.168 1.00 25.96	С
ATOM 7068 CG ARG B 417	14.766 21.716 64.424 1.00 26.28	С
ATOM 7071 CD ARG B 417	13.277 22.075 64.739 1.00 29.42	C
ATOM 7074 NE ARG B 417	12.437 20.881 64.733 1.00 26.91	N
ATOM 7076 CZ ARG B 417	12.598 19.893 65.587 1.00 28.65	C
ATOM 7077 NH1 ARG B 417	13.490 19.983 66.568 1.00 28.98	N
ATOM 7080 NH2 ARG B 417	11.841 18.821 65.488 1.00 30.77	N
ATOM 7083 C ARG B 417	16.901 22.186 62.222 1.00 23.66	С

ATOM	7084	O ARG B 417	17.168 21.022 61.917 1.00 23.62	О
ATOM		N PHE B 418	16.485 23.075 61.338 1.00 22.27	N
ATOM			16.391 22.744 59.925 1.00 21.50	С
ATOM		CB PHE B 418	15.839 23.936 59.155 1.00 21.21	C
ATOM		CG PHE B 418	15.686 23.696 57.702 1.00 20.80	C
ATOM			14.794 22.782 57.238 1.00 21.20	C
ATOM		CE1 PHE B 418	14.651 22.553 55.888 1.00 22.26	С
ATOM		CZ PHE B 418	15.364 23.256 54.991 1.00 21.03	С
ATOM		CE2 PHE B 418	16.253 24.168 55.426 1.00 25.19	C
ATOM		CD2 PHE B 418	16.416 24.399 56.792 1.00 24.41	C
ATOM	7103		17.735 22.214 59.338 1.00 21.50	C
ATOM	7103		17.777 21.092 58.865 1.00 20.74	O
ATOM		N PROB 419	18.829 22.985 59.385 1.00 22.15	N
ATOM		CA PRO B 419	20.128 22.466 58.932 1.00 22.23	С
ATOM		CB PRO B 419	21.079 23.640 59.163 1.00 22.29	C
ATOM		CG PRO B 419	20.393 24.554 60.075 1.00 22.23	С
		CD PRO B 419	18.937 24.383 59.853 1.00 21.84	С
ATOM		C PRO B 419	20.627 21.220 59.697 1.00 22.91	С
ATOM	7118		21.330 20.411 59.094 1.00 23.03	O
ATOM	7119		20.300 21.073 60.977 1.00 22.72	N
ATOM		CA ARG B 420	20.613 19.845 61.697 1.00 23.79	С
ATOM		CB ARG B 420	20.217 19.957 63.165 1.00 24.37	С
ATOM		CG ARG B 420	21.273 20.495 64.065 1.00 26.49	С
ATOM		CD ARG B 420	20.780 20.749 65.509 1.00 29.34	С
ATOM		NE ARG B 420	21.635 21.741 66.163 1.00 31.75	N
ATOM		CZ ARG B 420	21.210 22.758 66.920 1.00 34.22	С
ATOM		NH1 ARG B 420	19.905 22.942 67.170 1.00 35.33	N
ATOM		NH2 ARG B 420	22.105 23.606 67.434 1.00 33.74	N
ATOM			19.881 18.623 61.109 1.00 23.97	С
ATOM			20.459 17.540 61.041 1.00 23.43	0
ATOM		N MET B 421	18.622 18.791 60.702 1.00 24.27	N
ATOM			17.877 17.700 60.048 1.00 25.13	C
ATOM		CB MET B 421	16.444 18.107 59.705 1.00 25.14	C
ATOM		CG MET B 421	15.556 18.134 60.884 1.00 26.83	С
ATOM		SD MET B 421	14.022 18.916 60.489 1.00 27.49	S
ATOM		CE MET B 421	13.280 17.711 59.650 1.00 28.40	C
ATOM		C MET B 421	18.513 17.288 58.750 1.00 25.25	С
ATOM			18.675 16.104 58.484 1.00 25.17	Ο
ATOM		N LEU B 422	18.826 18.266 57.909 1.00 25.68	N
ATOM		CA LEU B 422	19.499 17.966 56.641 1.00 25.80	C
ATOM		CB LEU B 422	19.649 19.214 55.778 1.00 26.08	С
ATOM		CG LEU B 422	18.371 19.948 55.399 1.00 27.05	С
ATOM		CD1 LEU B 422	18.758 21.190 54.647 1.00 27.88	С
ATOM		CD2 LEU B 422	17.481 19.094 54.564 1.00 28.81	С
ATOM		C LEU B 422	20.889 17.373 56.870 1.00 24.95	С
ATOM			21.352 16.604 56.048 1.00 25.35	O
ATOM			21.554 17.700 57.972 1.00 23.97	N
ATOM		CA MET B 423	22.857 17.078 58.231 1.00 24.01	С

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		106	
ATOM	7183 CB MET B 423	23.519 17.564 59.514 1.00 24.15	С
ATOM			C
ATOM			S
ATOM		25.917 20.670 58.720 1.00 30.65	Č
ATOM		22.688 15.578 58.382 1.00 22.60	Č
ATOM		23.639 14.832 58.146 1.00 21.75	Ö
ATOM		21.501 15.157 58.837 1.00 21.54	N
ATOM		21.198 13.751 59.030 1.00 21.12	C
ATOM		19.915 13.552 59.845 1.00 21.41	Ċ
ATOM		20.021 14.054 61.302 1.00 22.33	Č
ATOM		21.060 13.262 62.112 1.00 24.54	Č
ATOM			C
		22.298 14.993 63.495 1.00 27.45	N
	7216 C LYS B 424	21.140 13.023 57.710 1.00 20.91	C
ATOM		21.461 11.842 57.650 1.00 21.03	O
ATOM		20.757 13.717 56.641 1.00 20.67	N
ATOM	7220 CA LEU B 425	20.877 13.152 55.302 1.00 20.64	С
ATOM	7222 CB LEU B 425	20.345 14.103 54.247 1.00 20.69	С
ATOM	7225 CG LEU B 425	18.873 14.438 54.379 1.00 21.19	С
ATOM	7227 CD1 LEU B 425	18.494 15.237 53.200 1.00 21.86	С
ATOM	7231 CD2 LEU B 425	18.054 13.190 54.443 1.00 22.05	С
ATOM	7235 C LEU B 425	22.320 12.775 54.954 1.00 19.93	С
ATOM	7236 O LEUB 425	22.560 11.793 54.253 1.00 20.24	0
ATOM	7237 N VALB 426	23.252 13.576 55.444 1.00 18.93	N
ATOM	7239 CA VAL B 426	24.673 13.325 55.277 1.00 18.53	C
ATOM	7241 CB VAL B 426	25.562 14.481 55.830 1.00 18.13	C
ATOM		26.999 14.281 55.417 1.00 18.12	С
ATOM		25.088 15.835 55.310 1.00 18.79	C
ATOM		25.066 12.056 55.990 1.00 19.07	C
	7252 O VAL B 426	25.722 11.216 55.391 1.00 19.50	O
ATOM			N
ATOM		25.032 10.747 58.062 1.00 18.73	С
ATOM	7257 CB SER B 427	24.455 10.833 59.463 1.00 18.64	C
		25.035 11.881 60.182 1.00 19.10	О
		24.495 9.495 57.412 1.00 18.86	С
	7263 O SER B 427	25.180 8.487 57.394 1.00 18.35	O
	7264 N LEUB 428		N
		22.650 8.419 56.207 1.00 19.88	C
		21.240 8.758 55.753 1.00 20.39	C
		20.127 8.747 56.783 1.00 22.09	C
		18.833 9.315 56.137 1.00 24.36	C
		19.876 7.349 57.324 1.00 22.79	С
	7281 C LEUB 428	23.433 7.870 55.018 1.00 20.62	C
	7282 O LEUB 428 7283 N ARG B 429	23.358 6.662 54.739 1.00 21.52	O
		24.149 8.726 54.293 1.00 21.02 25.036 8.240 53.230 1.00 21.84	N
		25.036 8.240 53.239 1.00 21.84 25.705 0.366 52.453 1.00 21.88	C
ATOM	7290 CG ARG B 429	25.705 9.366 52.453 1.00 21.88 24.825 10.054 51.493 1.00 22.26	C C
	-20 00 mid D 429	27.023 IV.VJT JI.TZJ I.VU ZZ.ZV	C

ATOM	7293 CD ARG B 429	23.955 9.170 50.625 1.00 21.65	С
ATOM	7296 NE ARG B 429	22.978 10.041 50.001 1.00 22.80	N
ATOM	7298 CZ ARG B 429	23.105 10.605 48.806 1.00 22.52	С
ATOM	7299 NH1 ARG B 429	24.158 10.373 48.037 1.00 21.19	N
ATOM	7302 NH2 ARG B 429	22.125 11.385 48.368 1.00 24.13	N
ATOM	7305 C ARG B 429	26.138 7.361 53.752 1.00 22.42	C
<b>ATOM</b>	7306 O ARG B 429	26.450 6.343 53.134 1.00 23.64	0
ATOM	7307 N THR B 430	26.775 7.773 54.838 1.00 22.80	N
<b>ATOM</b>	7309 CA THR B 430	27.779 6.922 55.448 1.00 22.74	С
<b>ATOM</b>	7311 CB THR B 430	28.429 7.629 56.631 1.00 22.93	С
<b>ATOM</b>	7313 OG1 THR B 430	29.214 8.722 56.144 1.00 24.58	O
ATOM	7315 CG2 THR B 430	29.448 6.722 57.336 1.00 22.39	С
ATOM	7319 C THR B 430	27.162 5.592 55.887 1.00 22.46	C
ATOM	7320 O THR B 430	27.729 4.542 55.636 1.00 22.37	0
ATOM	7321 N LEUB 431	26.001 5.634 56.526 1.00 22.38	N
ATOM	7323 CA LEU B 431	25.383 4.409 57.051 1.00 22.53	C
ATOM	7325 CB LEU B 431	24.150 4.717 57.888 1.00 21.83	С
ATOM	7328 CG LEU B 431	24.478 5.445 59.184 1.00 20.87	С
ATOM		23.188 5.951 59.823 1.00 20.96	C
ATOM	7334 CD2 LEU B 431		Č
ATOM	7338 C LEU B 431	25.030 3.458 55.918 1.00 22.90	С
ATOM	7339 O LEU B 431	25.170 2.238 56.052 1.00 23.02	Ō
ATOM	7340 N SER B 432	24.601 4.014 54.799 1.00 22.59	N
ATOM		24.342 3.202 53.637 1.00 23.31	C
ATOM		23.836 4.059 52.479 1.00 23.62	Č
ATOM		24.046 3.351 51.281 1.00 25.54	Ö
ATOM		25.596 2.445 53.206 1.00 23.40	C
ATOM	7350 O SER B 432	25.529 1.299 52.808 1.00 23.35	Ö
ATOM		26.745 3.092 53.283 1.00 24.11	N
ATOM	7353 CA SER B 433	28.005 2.432 53.004 1.00 24.80	C
ATOM	7355 CB SER B 433	29.157 3.419 53.086 1.00 25.19	Č
ATOM	7358 OG SER B 433		Ö
ATOM		28.289 1.311 53.971 1.00 24.29	C.
ATOM	7361 O SER B 433		Ö
ATOM	7362 N VALB 434	28.030 1.565 55.252 1.00 24.19	N
ATOM	7364 CA VAL B 434	28.243 0.579 56.319 1.00 24.22	C
ATOM		27.876 1.124 57.734 1.00 24.01	Č
ATOM	7368 CG1 VAL B 434	27.914 0.029 58.754 1.00 24.53	Ċ
ATOM	7372 CG2 VAL B 434	28.826 2.247 58.154 1.00 24.55	Č
ATOM	7376 C VAL B 434	27.386 -0.643 56.006 1.00 24.42	C
ATOM	7377 O VALB 434	27.858 -1.780 56.135 1.00 23.89	Ö
ATOM		26.161 -0.393 55.529 1.00 24.53	N
	7380 CA HIS B 435	25.210 -1.450 55.212 1.00 24.98	C
ATOM		23.836 -0.877 54.873 1.00 25.01	Č
	7385 CG HIS B 435	22.912 -1.859 54.231 1.00 24.61	Ċ
	7386 ND1 HIS B 435	22.618 -1.826 52.882 1.00 26.95	N
	7388 CE1 HIS B 435	21.787 -2.814 52.596 1.00 26.68	C
ATOM	7390 NE2 HIS B 435	21.526 -3.480 53.709 1.00 23.70	N
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ATOM 7392 CD2 HIS B 435	22.216 -2.900 54.745 1.00 24.26	С
ATOM 7394 C HIS B 435	25.714 -2.323 54.074 1.00 25.66	C
ATOM 7395 O HIS B 435	25.574 -3.530 54.163 1.00 25.03	Ö
ATOM 7396 N SER B 436	26.304 -1.710 53.035 1.00 26.47	N
ATOM 7398 CA SER B 436	26.938 -2.445 51.933 1.00 27.56	
ATOM 7400 CB SER B 436		C
ATOM 7403 OG SER B 436		C
ATOM 7405 C SER B 436	15.520 1.00 52.00	0
ATOM 7406 O SER B 436	28.025 -3.393 52.409 1.00 27.41	C
· — · · · ·	28.130 -4.493 51.882 1.00 27.40	О
	28.848 -2.949 53.364 1.00 27.71	N
ATOM 7409 CA GLUB 437		C
ATOM 7411 CB GLUB 437	30.805 -2.974 54.858 1.00 28.54	С
ATOM 7414 CG GLUB 437	31.727 -2.061 54.072 1.00 32.01	С
ATOM 7417 CD GLU B 437	32.166 -0.823 54.844 1.00 35 77	C
ATOM 7418 OE1 GLU B 437	32.705 0.098 54.190 1.00 39 57	Ö
ATOM 7419 OE2 GLU B 437	31.993 -0.764 56.092 1.00 38.27	Ö
ATOM 7420 C GLU B 437	29.317 -4.962 54.804 1.00 27.86	c
ATOM 7421 O GLU B 437	29.912 -6.042 54.876 1.00 27.25	o
ATOM 7422 N GLN B 438	28.171 -4.726 55.439 1.00 27.48	
	27.514 -5.770 56.196 1.00 27.48	N
ATOM 7426 CB GINB 438	26.391 -5.220 57.085 1.00 27.48	C
ATOM 7420 CD GLN D 438	26.391 -3.220 37.083 1.00 27.08	С
ATOM 7429 CO GEN B 438	25.479 -6.296 57.699 1.00 26.95	C
ATOM 7432 OF GENERALS	26.181 -7.186 58.720 1.00 27.28	С
ATOM 7433 OE1 GLN B 438	1.00 20.05	0
ATOM 7434 NE2 GLN B 438	26.701 -8.314 58.274 1.00 26.37	N
ATOM 7437 C GLN B 438	27.010 -6.821 55.197 1.00 27.52	С
ATOM 7438 O GLN B 438	27.304 -8.001 55.372 1.00 26.72	O
ATOM 7439 N VALB 439	26.320 -6.403 54.131 1.00 27.61	N
ATOM 7441 CA VALB439	25.830 -7.393 53.170 1.00 28.43	C
ATOM 7443 CB VAL B 439	24.717 -6.897 52.113 1.00 28.35	č
ATOM 7445 CG1 VAL B 439	24.044 -5.589 52.495 1.00 27.55	C
ATOM 7449 CG2 VAL B 439	25.229 -6.905 50.676 1.00 28.07	C
	27.004 -8.103 52.487 1.00 28.78	_
	26.901 -9.259 52.125 1.00 28.52	C
	28.125 -7.410 52.360 1.00 29.47	O
ATOM 7457 CA PHE B 440	29.305 -7.982 51.740 1.00 30.18	N
ATOM 7459 CB PHE B 440	20.319 6.977 51.300 1.00.30.18	C
ATOM 7462 CG PHE B 440	30.318 -6.877 51.390 1.00 30.52	С
ATOM 7463 CD1 PHE B 440	31.606 -7.398 50.836 1.00 31.17	С
	31.791 -7.513 49.466 1.00 31.37	C
	32.979 -8.019 48.956 1.00 31.90	C
	33.998 -8.423 49.821 1.00 32.17	C
ATOM 7469 CE2 PHE B 440	33.824 -8.319 51.191 1.00 32.21	С
ATOM 7471 CD2 PHE B 440	32.632 -7.803 51.696 1.00 31.85	C
ATOM 7473 C PHE B 440 2	9.913 -9.048 52.662 1.00 30,53	C
ATOM 7474 O PHE B 440 3	0.343 -10.100 52.195 1.00 30.16	Ö
AIOM 7475 N ALA B 441 2	29.925 -8.772 53.968 1.00 31.12	N
A10M /477 CA ALA B 441	30.325 -9.745 54.974 1.00 31.30	C
ATOM 7479 CB ALA B 441	30.379 -9.105 56.343 1.00 31.11	C
	11.10 00.5 15 1.00 51.11	C

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ATOM	7483 C ALA B 441	29.391 -10.955 54.995 1.00 32.14	C
ATOM	7484 O ALA B 441	29.800 -12.049 55.385 1.00 32.55	О
ATOM	7485 N LEUB 442	28.142 -10.771 54.589 1.00 33.22	N
ATOM	7487 CA LEU B 442	27.205 -11.892 54.477 1.00 34.11	C
ATOM	7489 CB LEU B 442	25.758 -11.389 54.314 1.00 33.91	C
ATOM	7492 CG LEU B 442	25.202 -10.628 55.521 1.00 33.90	. <b>C</b>
ATOM	7494 CD1 LEU B 442	23.829 -10.068 55.218 1.00 34.88	C
ATOM	7498 CD2 LEU B 442	25.123 -11.505 56.737 1.00 34.60	C
ATOM	7502 C LEUB 442	27.593 -12.841 53.332 1.00 34.73	C
ATOM	7503 O LEUB 442	27.529 -14.056 53.490 1.00 34.28	О
ATOM	7504 N ARG B 443	28.002 -12.274 52.198 1.00 35.79	N
ATOM	7506 CA ARG B 443	28.464 -13.057 51.053 1.00 36.82	С
ATOM	7508 CB ARG B 443	28.733 -12.121 49.852 1.00 37.27	C
ATOM	7511 CG ARG B 443	29.850 -12.552 48.893 1.00 39.03	С
ATOM	7514 CD ARG B 443	29.495 -12.486 47.393 1.00 41.01	C
ATOM	7517 NE ARG B 443	30.402 -13.339 46.604 1.00 43.02	N
ATOM	7519 CZ ARG B 443	30.348 -13.500 45.277 1.00 43.98	С
ATOM	7520 NH1 ARG B 443	29.428 -12.865 44.544 1.00 44.15	N
ATOM	7523 NH2 ARG B 443	31.225 -14.303 44.677 1.00 44.00	N
ATOM	7526 C ARG B 443	29.694 -13.903 51.446 1.00 37.30	C
ATOM	7527 O ARG B 443	29.792 -15.085 51.073 1.00 37.31	0
ATOM	7528 N LEUB 444	30.601 -13.314 52.229 1.00 37.79	N
ATOM	7530 CA LEU B 444	31.804 -14.014 52.703 1.00 38.36	C
ATOM	7532 CB LEU B 444	32.823 -13.031 53.309 1.00 38.50	C
ATOM	7535 CG LEU B 444	33.483 -11.946 52.437 1.00 39.27	C
ATOM	7537 CD1 LEU B 444	34.650 -11.301 53.198 1.00 39.42	C
ATOM	7541 CD2 LEU B 444	33.967 -12.493 51.093 1.00 39.49	С
ATOM	7545 C LEUB 444	31.501 -15.092 53.743 1.00 38.57	C
ATOM	7546 O LEUB 444	32.320 -15.972 53.946 1.00 38.77	0
ATOM	7547 N GLN B 445	30.351 -15.001 54.417 1.00 39.03	N
ATOM	7549 CA GLN B 445	29.935 -15.990 55.421 1.00 39.48	C
ATOM	7551 CB GLN B 445	29.267 -15.317 56.630 1.00 39.67	C
ATOM	7554 CG GLN B 445	30.160 -14.414 57.476 1.00 40.48	C
ATOM	7557 CD GLN B 445	29.374 -13.280 58.152 1.00 41.27	C
ATOM		28.303 -13.508 58.721 1.00 41.73	0
ATOM	7559 NE2 GLN B 445	29.904 -12.062 58.079 1.00 41.86	N
ATOM	7562 C GLN B 445	28.958 -17.022 54.846 1.00 39.62	C
ATOM	7563 O GLN B 445	28.558 -17.953 55.549 1.00 39.83	0
ATOM	7564 N ASP B 446	28.570 -16.856 53.583 1.00 39.69	N
ATOM	7566 CA ASP B 446	27.636 -17.775 52.926 1.00 39.90	C
ATOM	7568 CB ASP B 446	28.171 -19.220 52.986 1.00 40.14	C
ATOM	7571 CG ASP B 446	27.722 -20.064 51.805 1.00 40.55	C
ATOM	7572 OD1 ASP B 446	27.232 -19.486 50.812 1.00 40.10	0
ATOM	7573 OD2 ASP B 446	27.836 -21.315 51.786 1.00 41.94	0
ATOM	7574 C ASP B 446	26.218 -17.699 53.518 1.00 39.64	С
ATOM	7575 O ASP B 446	25.485 -18.697 53.549 1.00 39.62	0
ATOM	7576 N LYS B 447	25.855 -16.507 53.985 1.00 39.29	N
ATOM	7578 CA LYS B 447	24.502 -16.198 54.428 1.00 38.85	C

ATOM	7580 CB LYS B 447	24.538 -15.369 55.721 1.00 38.99	С
ATOM	7583 CG LYS B 447	25.541 -15.927 56.749 1.00 39.99	C
ATOM	7586 CD LYS B 447	25.296 -15.482 58.201 1.00 40.92	С
ATOM	7589 CE LYS B 447	26.096 -16.391 59.168 1.00 41.86	C
ATOM	7592 NZ LYS B 447	26.346 -15.812 60.527 1.00 42.16	N
ATOM	7596 C LYS B 447	23.842 -15.440 53.284 1.00 38.09	C
ATOM	7597 O LYS B 447	24.282 -14.348 52.921 1.00 38.31	Ο
ATOM	7598 N LYS B 448	22.822 -16.044 52.679 1.00 37.06	N
ATOM	7600 CA LYS B 448	22.124 -15.429 51.555 1.00 36.00	C
ATOM	7602 CB LYS B 448	21.698 -16.482 50.523 1.00 36.12	C
ATOM	7605 CG LYS B 448	22.856 -17.241 49.867 1.00 36.81	C
ATOM	7608 CD LYS B 448	23.688 -16.366 48.905 1.00 37.64	C
ATOM	7611 CE LYS B 448	25.091 -16.967 48.656 1.00 38.58	С
ATOM	7614 NZ LYS B 448	26.200 -16.218 49.345 1.00 38.48	N
ATOM	7618 C LYS B 448	20.912 -14.660 52.071 1.00 34.89	C
ATOM	7619 O LYS B 448	20.300 -15.040 53.082 1.00 34.58	О
ATOM	7620 N LEUB 449	20.601 -13.560 51.386 1.00 33.41	N
ATOM	7622 CA LEU B 449	19.396 -12.786 51.648 1.00 32.25	С
ATOM	7624 CB LEU B 449	19.590 -11.327 51.260 1.00 31.84	C
ATOM	7627 CG LEU B 449	20.615 -10.552 52.087 1.00 30.08	С
ATOM	7629 CD1 LEU B 449	20.834 -9.203 51.465 1.00 29.32	С
ATOM	7633 CD2 LEU B 449	20.156 -10.419 53.526 1.00 28.15	C
ATOM	7637 C LEU B 449	18.224 -13.360 50.868 1.00 31.93	C
ATOM	7638 O LEUB 449	18.415 -14.044 49.860 1.00 31.97	О
ATOM	7639 N PROB 450	17.010 -13.083 51.324 1.00 31.45	N
ATOM	7640 CA PROB 450	15.819 -13.504 50.585 1.00 31.01	С
ATOM	7642 CB PRO B 450	14.675 -13.158 51.544 1.00 31.37	C
ATOM	7645 CG PRO B 450	15.335 -12.895 52.857 1.00 31.77	С
ATOM	7648 CD PRO B 450	16.661 -12.322 52.536 1.00 31.42	C
ATOM	7651 C PROB 450	15.687 -12.698 49.279 1.00 30.32	C
ATOM	7652 O PROB 450	16.112 -11.544 49.270 1.00 29.65	Ο
ATOM	7653 N PROB 451	15.109 -13.295 48.232 1.00 29.63	N
ATOM	7654 CA PRO B 451	14.930 -12.658 46.920 1.00 29.20	С
ATOM	7656 CB PRO B 451	13.801 -13.496 46.298 1.00 29.78	С
ATOM		14.086 -14.923 46.803 1.00 29.58	С
ATOM	7662 CD PRO B 451	14.618 -14.696 48.221 1.00 30.20	С
	7665 C PROB 451	14.589 -11.154 46.846 1.00 28.57	C
	7666 O PROB 451	15.275 -10.462 46.118 1.00 28.26	О
	7667 N LEUB 452	13.589 -10.650 47.552 1.00 27.85	N
ATOM		13.300 -9.222 47.473 1.00 27.84	С
ATOM		12.015 -8.872 48.232 1.00 27.62	С
ATOM		11.493 -7.431 48.108 1.00 28.13	С
ATOM		10.753 -7.168 46.780 1.00 28.76	С
ATOM		10.575 -7.090 49.262 1.00 28.05	С
ATOM		14.489 -8.373 47.979 1.00 27.83	С
ATOM		14.794 -7.336 47.399 1.00 27.31	Ο
ATOM		15.151 -8.816 49.054 1.00 27.69	N
ATOM	7688 CA LEU B 453	16.289 -8.075 49.602 1.00 27.42	C

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ATOM	7690 CB LEU B 453	16.611 -8.523 51.042 1.00 27.10	С
ATOM	7693 CG LEU B 453	15.447 -8.370 52.046 1.00 26.10	С
ATOM	7695 CD1 LEU B 453	15.928 -8.521 53.480 1.00 25.11	C
ATOM	7699 CD2 LEU B 453	14.705 -7.058 51.868 1.00 26.13	С
ATOM	7703 C LEU B 453	17.512 -8.215 48.710 1.00 27.66	C
ATOM	7704 O LEU B 453	18.213 -7.252 48.457 1.00 26.54	Ο
ATOM	7705 N SER B 454	17.750 -9.423 48.230 1.00 28.50	N
ATOM	7707 CA SER B 454	18.856 -9.680 47.317 1.00 29.60	C
ATOM	7709 CB SER B 454	18.898 -11.151 46.927 1.00 29.24	С
ATOM	7712 OG SER B 454	20.228 -11.551 46.868 1.00 28.29	Ο
ATOM	7714 C SER B 454	18.756 -8.833 46.058 1.00 30.98	C
ATOM	7715 O SER B 454	19.738 -8.280 45.598 1.00 30.30	O
ATOM	7716 N GLUB 455	17.546 -8.740 45.531 1.00 33.26	N
ATOM	7718 CA GLU B 455	17.220 -7.905 44.371 1.00 35.66	C
ATOM	7720 CB GLU B 455	15.707 -8.032 44.086 1.00 36.15	C
ATOM	7723 CG GLU B 455	15.263 -7.623 42.691 1.00 39.50	С
ATOM	7726 CD GLU B 455	13.842 -7.056 42.656 1.00 43.95	С
ATOM	7727 OE1 GLU B 455	13.642 -6.051 41.923 1.00 46.30	O
ATOM	7728 OE2 GLU B 455		О
ATOM	7729 C GLU B 455		С
ATOM	7730 O GLUB 455	18.015 -5.782 43.514 1.00 36.57	О
ATOM	7731 N ILE B 456	17.547 -5.820 45.705 1.00 37.41	N
ATOM	7733 CA ILE B 456	17.870 -4.396 45.900 1.00 38.54	С
ATOM	7735 CB ILE B 456		C
ATOM		15.584 -4.278 46.966 1.00 41.19	C
ATOM	7740 CD1 ILE B 456	15.094 -4.432 48.349 1.00 43.54	C
ATOM	7744 CG2 ILE B 456	16.922 -2.233 46.842 1.00 40.69	C
ATOM	7748 C ILE B 456	19.306 -4.145 46.321 1.00 38.55	C
ATOM	7749 O ILE B 456	19.827 -3.078 46.049 1.00 39.13	O
ATOM	7750 N TRP B 457	19.935 -5.098 46.997 1.00 38.56	N
ATOM	7752 CA TRP B 457	21.187 -4.827 47.695 1.00 39.22	С
ATOM	7754 CB TRP B 457	20.997 -5.016 49.196 1.00 38.75	C
ATOM	7757 CG TRP B 457	20.060 -4.069 49.811 1.00 36.02	C
ATOM	7758 CD1 TRP B 457	19.845 -2.783 49.455 1.00 35.13	С
ATOM	7760 NE1 TRP B 457		N
ATOM	7762 CE2 TRP B 457	18.508 -3.144 51.196 1.00 33.63	C
ATOM	7763 CD2 TRP B 457	19.225 -4.322 50.932 1.00 34.53	С
ATOM	7764 CE3 TRP B 457	18.996 -5.444 51.744 1.00 35.16	C
<b>ATOM</b>	7766 CZ3 TRP B 457		C
ATOM	7768 CH2 TRP B 457	17.378 -4.158 52.992 1.00 35.72	С
ATOM		17.584 -3.046 52.220 1.00 34.02	С
ATOM	7772 C TRP B 457	22.403 -5.652 47.286 1.00 40.58	С
ATOM		23.519 -5.234 47.550 1.00 40.81	O
ATOM		22.205 -6.829 46.703 1.00 42.46	N
ATOM		23.335 -7.641 46.243 1.00 43.79	С
	7778 CB ASP B 458	23.021 -9.140 46.277 1.00 43.86	C
ATOM			C
ATOM	7782 OD1 ASP B 458	24.152 -10.079 48.149 1.00 43.49	О
		-	

ATOM	7783	OD2 ASP B 458	22.071 -9.748 48.421 1.00 43.98	О
ATOM	7784	C ASP B 458	23.770 -7.230 44.850 1.00 45.14	C
ATOM	7785		22.939 -6.973 43.968 1.00 44.86	O
ATOM		N VAL B 459	25.087 -7.166 44.671 1.00 46.62	N
ATOM		CA VAL B 459	25.677 -6.828 43.382 1.00 47.79	C
ATOM		CB VAL B 459	27.184 -6.477 43.539 1.00 48.10	C
ATOM		CG1 VAL B 459	27.761 -5.902 42.224 1.00 48.81	С
ATOM		<b>CG2 VAL B 459</b>	27.396 -5.495 44.724 1.00 48.27	С
ATOM		C VAL B 459	25.448 -8.016 42.420 1.00 48.37	C
ATOM		O VAL B 459	24.879 -7.851 41.330 1.00 48.63	O
ATOM		N ALA B 460	25.866 -9.208 42.851 1.00 48.86	N
ATOM		CA ALA B 460	25.615 -10.453 42.120 1.00 49.35	C
ATOM		CB ALA B 460	24.120 -10.826 42.193 1.00 49.37	С
ATOM		C ALA B 460	26.087 -10.381 40.660 1.00 49.70	С
ATOM		O ALA B 460	27.291 -10.328 40.385 1.00 49.95	O
ATOM		O37 GW3 B 500	8.754 -1.467 61.961 1.00 21.14	0
ATOM		C35 GW3 B 500	8.030 -1.164 60.974 1.00 21.33	С
ATOM		O36 GW3 B 500		0
ATOM		C34 GW3 B 500	8.501 -1.270 59.540 1.00 19.45	C
ATOM		C32 GW3 B 500	10,000 -1.306 59.568 1.00 21.09	С
ATOM		C32 GW3 B 500	10.693 -2.503 59.749 1.00 22.33	Č
ATOM		C31 GW3 B 500	10.702 -0.108 59.501 1.00 20.76	Č
ATOM		C30 GW3 B 500	12.080 -0.101 59.610 1.00 21.26	Č
ATOM		C29 GW3 B 500	12.780 -1.289 59.769 1.00 20.92	Č
ATOM		C28 GW3 B 500	12.082 -2.495 59.849 1.00 21.78	Č
		O27 GW3 B 500		Ö
ATOM		C26 GW3 B 500	14.141 -3.775 60.164 1.00 20.96	č
ATOM		C25 GW3 B 500	14.455 -5.133 60.776 1.00 21.14	Č
ATOM		C17 GW3 B 500	15.789 -5.126 61.531 1.00 22.57	Č
ATOM		N09 GW3 B 500		N
ATOM		C16 GW3 B 500		C
ATOM				Č
ATOM		C18 GW3 B 500 C19 GW3 B 500		C
ATOM				CL
ATOM		CL4 GW3 B 500 C23 GW3 B 500	17.728 -4.467 57.648 1.00 37.09	C
ATOM			18.495 -4.181 56.512 1.00 37.81	C
ATOM		C22 GW3 B 500	19.460 -5.057 56.039 1.00 38.98	C
ATOM		C21 GW3 B 500	19.688 -6.273 56.678 1.00 41.52	C
ATOM		C20 GW3 B 500		C
ATOM		C39 GW3 B 500		F
ATOM		F41 GW3 B 500	21.793 -7.133 56.983 1.00 43.65	
ATOM		F40 GW3 B 500	21.077 -6.967 54.925 1.00 42.94	F
ATOM		F42 GW3 B 500	20.222 -8.479 56.232 1.00 43.14	F
ATOM		C08 GW3 B 500	18.226 -4.603 61.323 1.00 19.42	C
ATOM		C07 GW3 B 500		C
ATOM		C01 GW3 B 500	19.252 -2.859 62.772 1.00 16.60	C
ATOM		C02 GW3 B 500		C
ATOM		C03 GW3 B 500		C
ATOM	/866	C04 GW3 B 500	21.241 -2.336 64.672 1.00 16.12	С

ATOM	7868 C05 GW3 B 500	19.972 -1.826 64.807 1.00 14.93	С
<b>ATOM</b>	7870 C06 GW3 B 500	18.991 -2.065 63.868 1.00 14.57	С
ATOM	7872 C10 GW3 B 500	18.269 -2.207 60.620 1.00 15.98	С
<b>ATOM</b>	7873 C11 GW3 B 500	17.241 -1.306 60.395 1.00 15.06	С
<b>ATOM</b>	7875 C12 GW3 B 500	17.289 -0.426 59.333 1.00 15.36	С
ATOM	7877 C13 GW3 B 500	18.370 -0.448 58.464 1.00 16.16	С
ATOM	7879 C14 GW3 B 500	19.398 -1.367 58.689 1.00 16.09	C
<b>ATOM</b>	7881 C15 GW3 B 500	19.359 -2.222 59.771 1.00 13.56	С
ATOM	7883 O4 IOH B 501	6.727 4.693 56.348 1.00 41.79	О
<b>ATOM</b>	7885 C2 IOH B 501	6.928 4.483 54.955 1.00 38.97	C
ATOM	7887 C3 IOH B 501	7.991 5.407 54.403 1.00 37.54	C
ATOM	7891 C1 IOH B 501	7.342 3.044 54.790 1.00 39.36	C
ATOM	7895 N LEU C 220	-3.000 112.946 100.447 1.00 18.87	N
ATOM	7897 CA LEU C 220	-1.866 113.110 101.401 1.00 19.26	С
ATOM	7899 CB LEU C 220	-0.649 113.749 100.719 1.00 19.49	C
ATOM	7902 CG LEU C 220	0.247 112.935 99.763 1.00 19.18	С
ATOM	7904 CD1 LEU C 220	1.325 113.826 99.175 1.00 19.39	C
ATOM	7908 CD2 LEU C 220	0.900 111.790 100.458 1.00 19.53	C
ATOM	7912 C LEU C 220	-2.326 113.981 102.564 1.00 19.20	C
ATOM	7913 O LEU C 220	-2.819 115.092 102.359 1.00 19.47	O
ATOM	7916 N THR C 221	-2.195 113.457 103.781 1.00 18.88	N
ATOM	7918 CA THR C 221	-2.518 114.224 104.981 1.00 18.78	C
ATOM	7920 CB THR C 221	-2.515 113.325 106.227 1.00 18.57	C
ATOM	7922 OG1 THR C 221	-1.232 112.697 106.349 1.00 18.19	0
ATOM	7924 CG2 THR C 221	-3.513 112.156 106.089 1.00 17.48	С
ATOM	7928 C THR C 221	-1.479 115.313 105.169 1.00 18.66	C
ATOM	7929 O THR C 221	-0.394 115.246 104.605 1.00 18.69	0
ATOM	7930 N ALA C 222	-1.800 116.290 106.002 1.00 18.45	N
ATOM	7932 CA ALA C 222	-0.899 117.404 106.259 1.00 18.07	C
ATOM	7934 CB ALA C 222	-1.599 118.474 107.099 1.00 18.24	C
ATOM	7938 C ALA C 222	0.395 116.957 106.926 1.00 17.91	C
ATOM	7939 O ALA C 222	1.444 117.542 106.666 1.00 17.31	O
ATOM	7940 N ALA C 223		N
ATOM		1.515 115.342 108.397 1.00 18.20	C
	7944 CB ALA C 223	1.130 114.368 109.535 1.00 18.08	C
	7948 C ALA C 223	2.421 114.638 107.364 1.00 18.47	C
	7949 O ALA C 223	3.652 114.679 107.479 1.00 19.33	O
ATOM	7950 N GLN C 224	1.826 114.003 106.367 1.00 18.54	N
ATOM		2.597 113.414 105.265 1.00 19.03	C
ATOM	7954 CB GLN C 224	1.717 112.519 104.392 1.00 18.60	C
ATOM	7957 CG GLN C 224	1.353 111.229 105.093 1.00 18.65	C
ATOM		0.474 110.329 104.247 1.00 18.87	C
ATOM		-0.411 110.818 103.525 1.00 19.17	0
ATOM		0.727 109.009 104.309 1.00 16.75	N
ATOM		3.262 114.483 104.407 1.00 19.01	C
ATOM	7966 O GLN C 224	4.418 114.355 104.064 1.00 19.36	0
ATOM	7967 N GLU C 225	2.532 115.530 104.067 1.00 19.27	N
ATOM	7969 CA GLU C 225	3.083 116.640 103.290 1.00 19.85	С

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4 TO 1 4	7971 CB GLU C 225	1.989 117.665 102.986 1.00 19.94	С
	7971 CB GLU C 225		Č
ATOM		0.001 118.231 101.523 1.00 25.61	C
ATOM	7977 CD GLU C 225	-0.425 119.047 102.395 1.00 27.21	0
ATOM	7978 OE1 GLU C 225	-0.399 118.223 100.323 1.00 26.40	0
ATOM	7979 OE2 GLU C 225		c
ATOM	7980 C GLU C 225	4.230 117.336 104.021 1.00 19.69	
ATOM	7981 O GLU C 225	5.224 117.711 103.415 1.00 19.29	0
ATOM	7982 N LEU C 226	4.052 117.513 105.328 1.00 19.81	N
ATOM	7984 CA LEU C 226	5.056 118.090 106.204 1.00 19.75	С
ATOM	7986 CB LEU C 226	4.534 118.129 107.649 1.00 19.32	C
ATOM	7989 CG LEU C 226	5.504 118.634 108.724 1.00 18.59	С
ATOM	7991 CD1 LEU C 226	5.799 120.123 108.512 1.00 18.72	C
ATOM	7995 CD2 LEU C 226	4.932 118.394 110.102 1.00 18.51	C
ATOM	7999 C LEU C 226	6.336 117.263 106.131 1.00 20.57	C
<b>ATOM</b>	8000 O LEU C 226	7.414 117.797 105.927 1.00 20.55	О
<b>ATOM</b>	8001 N MET C 227	6.202 115.956 106.272 1.00 21.50	N
ATOM	8003 CA MET C 227	7.380 115.097 106.323 1.00 23.14	С
ATOM	8005 CB MET C 227	7.050 113.723 106.940 1.00 23.60	C
ATOM	8008 CG MET C 227	6.822 112.605 105.948 1.00 29.90	С
ATOM	8011 SD MET C 227	6.915 110.955 106.707 1.00 39.06	S
ATOM	8012 CE MET C 227	5.699 111.169 107.969 1.00 38.81	C
ATOM	8016 C MET C 227	8.083 115.007 104.949 1.00 22.02	С
ATOM	8017 O MET C 227		О
ATOM	8018 N ILE C 228	7.318 114.931 103.869 1.00 20.67	N
ATOM	8020 CA ILE C 228	7.885 114.908 102.516 1.00 19.93	С
ATOM	8022 CB ILE C 228	6.793 114.573 101.470 1.00 19.41	С
ATOM	8024 CG1 ILE C 228	6.298 113.147 101.664 1.00 18.75	С
ATOM	8027 CD1 ILE C 228	4.906 112.910 101.081 1.00 19.38	С
ATOM	8031 CG2 ILE C 228	7.306 114.765 100.055 1.00 19.58	С
ATOM	8035 C ILE C 228	8.580 116.223 102.144 1.00 19.60	С
ATOM	8036 O ILE C 228	9.687 116.196 101.642 1.00 19.79	Ö
ATOM	8030 O ILL C 220 8037 N GLN C 229		N
ATOM	8037 N GEN C 229		Ċ
ATOM	8041 CB GLN C 229		č
ATOM	8041 CB GLN C 229	6.339 119.892 101.282 1.00 20.68	Č
	8047 CD GLN C 229		č
ATOM	8047 CD GLN C 229	4.691 121.645 100.845 1.00 24.75	ŏ
ATOM	8049 NE2 GLN C 229	4.609 120.687 102.885 1.00 26.71	N
ATOM		9.738 118.890 103.042 1.00 17.73	C
ATOM		10.683 119.534 102.633 1.00 17.45	O
ATOM		9.738 118.332 104.248 1.00 16.98	N
ATOM			
ATOM		10.945 118.321 105.078 1.00 16.64	C
ATOM		10.707 117.558 106.391 1.00 16.42	C
ATOM		11.836 117.685 107.371 1.00 15.46	C
ATOM	8064 CD GLN C 230	11.893 119.027 108.013 1.00 14.19	C
ATOM	8065 OE1 GLN C 230	11.112 119.916 107.695 1.00 17.78	O
ATOM	8066 NE2 GLN C 230	12.827 119.198 108.917 1.00 19.79	N
ATOM	8069 C GLN C 230	12.143 117.666 104.377 1.00 16.24	С

ATOM	8070 O GLN C 230	13.230 118.227 104.372 1.00 15.92	О
ATOM	8071 N LEU C 231	11.918 116.481 103.805 1.00 15.98	N
ATOM	8073 CA LEU C 231	12.954 115.694 103.141 1.00 16.11	C
ATOM	8075 CB LEU C 231	12.411 114.320 102.691 1.00 16.41	С
ATOM	8078 CG LEU C 231	12.065 113.304 103.790 1.00 15.91	C
ATOM	8080 CD1 LEU C 231	11.800 111.893 103.219 1.00 15.15	C
ATOM	8084 CD2 LEU C 231	13.170 113.251 104.823 1.00 17.22	С
ATOM	8088 C LEU C 231	13.485 116.430 101.942 1.00 16.02	C
ATOM	8089 O LEU C 231	14.678 116.480 101.726 1.00 16.40	Ο
ATOM	8090 N VAL C 232	12.591 117.047 101.191 1.00 16.32	N
ATOM	8092 CA VAL C 232	12.930 117.678 99.924 1.00 15.86	C
ATOM	8094 CB VAL C 232	11.656 117.989 99.145 1.00 15.91	С
ATOM	8096 CG1 VAL C 232	11.911 118.873 97.916 1.00 15.14	С
ATOM	8100 CG2 VAL C 232	10.979 116.688 98.736 1.00 16.53	С
ATOM	8104 C VAL C 232	13.721 118.933 100.198 1.00 16.07	C
ATOM	8105 O VAL C 232	14.623 119.287 99.448 1.00 15.57	O
ATOM	8106 N ALA C 233	13.384 119.598 101.288 1.00 16.72	N
ATOM	8108 CA ALA C 233	13.974 120.887 101.599 1.00 17.30	C
ATOM	8110 CB ALA C 233	13.088 121.677 102.551 1.00 17.06	С
ATOM	8114 C ALA C 233	15.352 120.678 102.198 1.00 18.01	С
ATOM	8115 O ALA C 233	16.247 121.479 101.957 1.00 18.07	Ο
ATOM	8116 N ALA C 234	15.511 119.608 102.978 1.00 18.89	N
ATOM	8118 CA ALA C 234	16.817 119.210 103.489 1.00 20.13	С
ATOM	8120 CB ALA C 234	16.679 118.070 104.482 1.00 20.02	С
ATOM	8124 C ALA C 234	17.756 118.801 102.355 1.00 21.35	С
ATOM	8125 O ALA C 234	18.930 119.110 102.379 1.00 21.43	O
ATOM		17.222 118.093 101.373 1.00 23.22	N
ATOM	8128 CA GLN C 235	17.988 117.635 100.218 1.00 24.76	С
ATOM	8130 CB GLN C 235	17.101 116.786 99.311 1.00 24.76	С
ATOM	8133 CG GLN C 235	17.864 115.909 98.363 1.00 26.38	С
ATOM		16.978 114.874 97.687 1.00 27.51	С
	8137 OE1 GLN C 235	16.122 115.215 96.865 1.00 28.36	O
ATOM	8138 NE2 GLN C 235	17.191 113.615 98.019 1.00 29.14	N
	8141 C GLN C 235	18.514 118.837 99.451 1.00 25.74	С
ATOM		19.696 118.930 99.185 1.00 25.87	O
	8143 N LEU C 236	17.620 119.771 99.140 1.00 27.09	N
	8145 CA LEU C 236	17.975 120.996 98.459 1.00 28.40	C
ATOM		16.730 121.850 98.198 1.00 28.61	Č
ATOM		16.998 123.063 97.296 1.00 29.58	Č
ATOM		17.126 122.638 95.812 1.00 29.51	Č
ATOM		15.934 124.145 97.481 1.00 29.96	Č
ATOM		18.997 121.809 99.246 1.00 29.64	c
-		19.898 122.392 98.652 1.00 29.50	Ö
ATOM		18.853 121.844 100.569 1.00 30.95	N
ATOM		19.717 122.657 101.421 1.00 32.29	C
ATOM		19.717 122.637 101.421 1.00 32.29	C
ATOM		18.026 123.911 102.926 1.00 34.37	C
ATOM		17.703 124.358 104.366 1.00 36.57	C
ATOM	01/2 CD GLN C 23/	17.703 124.330 104.300 1.00 30.37	C

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ATOM	8173	OE1 GLN C 237	18.165 123.763 105.354 1.00 37.85	О
ATOM		<b>NE2 GLN C 237</b>	16.912 125.420 104.474 1.00 36.78	N
ATOM		C GLN C 237	21.110 122.042 101.515 1.00 33.08	C
ATOM	8178		22.104 122.759 101.564 1.00 32.91	Ο
ATOM	8179		21.161 120.711 101.522 1.00 34.30	N
ATOM		CA CYS C 238	22.404 119.959 101.674 1.00 35.29	C
ATOM		CB CYS C 238	22.130 118.495 102.050 1.00 35.18	С
ATOM		SG CYS C 238	21,945 118,233 103,840 1,00 36,28	S
ATOM		C CYS C 238	23.215 120.026 100.398 1.00 36.15	С
ATOM	8188		24.426 120.198 100.446 1.00 36.59	О
ATOM	8189		22.539 119.924 99.260 1.00 37.18	N
ATOM		CA ASN C 239	23.199 119.984 97.955 1.00 38.14	С
ATOM		CB ASN C 239	22.407 119.148 96.918 1.00 38.24	C
ATOM		CG ASN C 239	22.074 119.921 95.658 1.00 39.13	C
		OD1 ASN C 239	20.957 120.427 95.500 1.00 39.88	О
ATOM		ND2 ASN C 239	23.046 120.017 94.748 1.00 39.76	N
ATOM		C ASN C 239	23.484 121.448 97.498 1.00 38.61	C
ATOM			24.366 121.689 96.666 1.00 38.64	Ö
ATOM	8202	N LYS C 240	22.757 122.411 98.070 1.00 39.15	N
ATOM			23.052 123.841 97.901 1.00 39.51	C
ATOM		CA LYS C 240	21.867 124.704 98.381 1.00 39.54	Č
ATOM		CB LYS C 240	22.137 126.215 98.547 1.00 39.40	Č
ATOM		CG LYS C 240	20.992 126.934 99.298 1.00 39.36	Č
ATOM		CD LYS C 240	21.499 127.786 100.484 1.00 39.27	C
ATOM		CE LYS C 240	22.193 129.051 100.069 1.00 37.35	N
ATOM		NZ LYS C 240		C
ATOM		C LYS C 240	24.325 124.188 98.681 1.00 39.89	
ATOM	8224		25.037 125.136 98.334 1.00 39.84	O
ATOM		N ARG C 241	24.608 123.397 99.718 1.00 40.30	N
ATOM		CA ARG C 241	25.792 123.575 100.564 1.00 40.69	C
ATOM		CB ARG C 241	25.636 122.759 101.864 1.00 40.77	C
ATOM		CG ARG C 241	26.249 123.401 103.111 1.00 41.52	C
ATOM		CD ARG C 241	25.525 123.062 104.433 1.00 42.15	C
ATOM		NE ARG C 241	24.353 123.917 104.653 1.00 43.09	N
ATOM		CZ ARG C 241	24.387 125.216 104.988 1.00 44.14	C
ATOM		NH1 ARG C 241	25.543 125.864 105.164 1.00 44.34	N
ATOM		NH2 ARG C 241	23.244 125.881 105.147 1.00 44.22	N
ATOM	8247	C ARG C 241	27.115 123.201 99.869 1.00 40.77	С
ATOM	8248	O ARG C 241	28.187 123.438 100.425 1.00 40.80	О
ATOM	8249	N SER C 242	27.032 122.620 98.668 1.00 41.06	N
ATOM	8251	CA SER C 242	28.210 122.219 97.882 1.00 41.04	С
ATOM	8253	3 CB SER C 242	28.141 120.723 97.598 1.00 41.11	С
ATOM	8256	OG SER C 242	27.716 120.028 98.761 1.00 40.52	Ο
ATOM		3 C SER C 242	28.383 122.981 96.559 1.00 41.14	C
ATOM			29.381 122.784 95.860 1.00 41.28	O
ATOM		N PHE C 243	27.417 123.831 96.210 1.00 41.19	N
ATOM		2 CA PHE C 243	27.605 124.812 95.134 1.00 41.30	С
ATOM		CB PHE C 243	26.339 125.665 94.910 1.00 41.49	С
ATOM		7 CG PHE C 243	25.168 124.930 94.268 1.00 42.57	C

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ATOM	8268 CD1 PHE C 243	25.188 123.547 94.038 1.00 43.04	C
ATOM	8270 CE1 PHE C 243	24.091 122.905 93.457 1.00 43.24	C
ATOM	8272 CZ PHE C 243	22.962 123.636 93.103 1.00 43.20	С
ATOM	8274 CE2 PHE C 243	22.927 125.007 93.328 1.00 43.18	C
	8276 CD2 PHE C 243	24.024 125.646 93.906 1.00 43.10	С
	8278 C PHE C 243	28.756 125.755 95.506 1.00 40.99	C
ATOM	8279 O PHE C 243	29.512 126.199 94.635 1.00 41.16	O
ATOM		28.863 126.054 96.805 1.00 40.55	N
ATOM	8282 CA SER C 244	29.876 126.974 97.349 1.00 40.11	C
ATOM	8284 CR SER C 244	29.395 127.581 98.681 1.00 40.14	С
ATOM	8287 OG SER C 244	28.665 126.642 99.463 1.00 40.31	O
ATOM	8289 C SER C 244	31.255 126.328 97.544 1.00 39.56	С
			0
ATOM			N
ATOM	8291 N ASP C 243	32.531 124.242 97.862 1.00 38.34	C
			č
ATOM			Č
ATOM	8298 CG ASP C 245		o
ATOM	8299 ODI ASP C 245	32.144 124.445 100.661 1.00 37.96	Ö
		31.190 122.543 100.882 1.00 37.27	С
	8301 C ASP C 245		0
ATOM	8302 O ASP C 245		
ATOM	8303 N GLN C 246	32.659 124.335 95.404 1.00 37.07	N
ATOM	8305 CA GLN C 246	33.203 124.045 94.069 1.00 36.48	C
		32.240 124.531 92.973 1.00 36.56	C
	8310 CG GLN C 246		C
ATOM	8313 CD GLN C 246	30.925 123.916 90.898 1.00 37.34	C
ATOM	8314 OE1 GLN C 246	31.495 124.698 90.133 1.00 37.73	O
		29.696 123.468 90.684 1.00 36.99	N
<b>ATOM</b>	8318 C GLN C 246		C
<b>ATOM</b>	8319 O GLN C 246		О
<b>ATOM</b>	8320 N PRO C 247	34.853 125.881 94.167 1.00 34.98	N
ATOM	8321 CA PRO C 247	36.138 126.525 93.844 1.00 34.39	C
ATOM	8323 CB PRO C 247	35.916 128.005 94.218 1.00 34.46	С
	8326 CG PRO C 247		С
	8329 CD PRO C 247	33.962 126.776 94.927 1.00 34.91	С
ATOM		37.370 125.961 94.581 1.00 33.70	C
	8333 O PRO C 247	38.491 126.285 94.168 1.00 33.73	Ο
	8334 N LYS C 248	37.172 125.159 95.634 1.00 32.78	N
	8336 CA LYS C 248	38.282 124.559 96.383 1.00 31.98	С
	8338 CB LYS C 248	38.239 124.984 97.857 1.00 31.98	C
	8341 CG LYS C 248	38.585 126.457 98.091 1.00 31.80	C
	8344 CD LYS C 248	40.083 126.732 97.993 1.00 31.11	С
	8347 CE LYS C 248	40.354 128.051 97.282 1.00 31.01	С
	8350 NZ LYS C 248	41.728 128.557 97.541 1.00 30.77	N
	8354 C LYS C 248	38.274 123.037 96.264 1.00 31.22	C
	8355 O LYS C 248	38.158 122.320 97.259 1.00 31.21	ŏ
	8356 N VALC 249	38.374 122.567 95.025 1.00 30.37	N
	8358 CA VAL C 249	38.574 122.507 95.023 1.00 30.57	C
W I OM	0330 CA VALC 249	JU,J/T 121.1J1 /T./1J 1.00 27.0J	$\sim$

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		37.283 120.514 94.110 1.00 29.80	C
ATOM	8362 CG1 VAL C 249	37.490 119.038 93.774 1.00 29.53	C
ATOM	8366 CG2 VAL C 249	36.102 120.671 95.066 1.00 29.75	C
ATOM	8370 C VAL C 249	39.729 121.052 93.716 1.00 29.44	C
ATOM	8371 O VAL C 249	40.034 122.026 93.027 1.00 29.48	Ο
ATOM	8372 N THR C 250	40.387 119.897 93.650 1.00 28.90	N
	8374 CA THR C 250	41.409 119.664 92.633 1.00 28.57	С
ATOM	8376 CB THR C 250	41.937 118.215 92.714 1.00 28.56	C
<b>ATOM</b>	8378 OG1 THR C 250	42.623 118.016 93.955 1.00 28.79	О
ATOM	8380 CG2 THR C 250	43.017 117.951 91.661 1.00 28.45	С
ATOM	8384 C THR C 250	40.786 119.916 91.259 1.00 28.27	C
ATOM	8385 O THR C 250	39.830 119.224 90.902 1.00 28.29	О
<b>ATOM</b>	8386 N PRO C 251	41.284 120.911 90.509 1.00 27.77	N
<b>ATOM</b>	8387 CA PRO C 251	40.749 121.209 89.169 1.00 27.44	С
ATOM	8389 CB PRO C 251	41.597 122.408 88.698 1.00 27.49	С
ATOM	8392 CG PRO C 251	42.210 122.975 89.924 1.00 27.63	С
ATOM	8395 CD PRO C 251	42.374 121.835 90.876 1.00 27.77	С
ATOM	8398 C PRO C 251	40.902 120.034 88.199 1.00 27.10	С
ATOM	8399 O PRO C 251	42.026 119.563 87.992 1.00 27.15	О
ATOM	8400 N TRP C 252	39.791 119.586 87.615 1.00 26.58	N
ATOM	8402 CA TRP C 252	39.769 118.400 86.751 1.00 26.32	C
ATOM	8404 CB TRP C 252		С
ATOM	8407 CG TRP C 252	38.481 117.305 84.848 1.00 26.16	C
	8408 CD1 TRP C 252	38.671 117.394 83.495 1.00 26.45	С
ATOM		38.563 116.152 82.917 1.00 26.21	N
ATOM		38.304 115.230 83.896 1.00 26.08	С
	8413 CD2 TRP C 252	38.252 115.924 85.126 1.00 25.85	С
	8414 CE3 TRP C 252		С
	8416 CZ3 TRP C 252		С
ATOM	8418 CH2 TRP C 252	37.868 113.167 84.962 1.00 26.42	C
	8420 CZ2 TRP C 252		С
ATOM	8422 C TRP C 252	41.055 118.218 85.919 1.00 26.10	С
ATOM	8423 O TRP C 252		0
ATOM		45.285 110.592 85.368 1.00 20.90	N
ATOM		44.717 109.405 85.998 1.00 20.95	C
	8428 CB ARG C 264	45.561 108.170 85.664 1.00 21.07	С
	8431 CG ARG C 264	45.200 107.505 84.337 1.00 21.24	С
	8434 CD ARG C 264	44.318 106.252 84.458 1.00 21.59	С
	8437 NE ARG C 264	44.886 105.110 83.734 1.00 21.88	N
	8439 CZ ARG C 264	44.195 104.060 83.278 1.00 21.84	С
	8440 NH1 ARG C 264		N
	8443 NH2 ARG C 264		N
	8446 C ARG C 264	44.615 109.579 87.513 1.00 20.92	C
	8447 O ARG C 264	43.539 109.401 88.095 1.00 20.89	Ö
	8448 N GLN C 265	45.735 109.931 88.142 1.00 20.82	N
	8450 CA GLN C 265	45.805 110.075 89.601 1.00 20.79	C
	8452 CB GLN C 265	47.218 109.772 90.117 1.00 20.82	Č
	8455 CG GLN C 265	47.861 108.481 89.567 1.00 20.84	Č
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ATOM	8458	CD GLN C 265	47.704 107.288 90.497 1.00 20.48	C
ATOM	8459	OE1 GLN C 265	46.649 107.105 91.114 1.00 19.44	О
ATOM		NE2 GLN C 265	48.753 106.474 90.597 1.00 19.51	N
ATOM	8463	C GLN C 265	45.376 111.476 90.055 1.00 20.74	C
ATOM	8464	O GLN C 265	44.912 111.650 91.183 1.00 20.71	О
ATOM	8465		45.537 112.465 89.174 1.00 20.57	N
ATOM		CA GLN C 266	45.069 113.830 89.426 1.00 20.43	С
ATOM	8469	CB GLN C 266	45.622 114.792 88.371 1.00 20.43	С
ATOM	8472	CG GLN C 266	47.155 114.861 88.305 1.00 20.22	C
ATOM		CD GLN C 266	47.657 115.901 87.323 1.00 19.98	C
ATOM		OE1 GLN C 266	48.641 115.671 86.617 1.00 20.15	0
ATOM	8477	NE2 GLN C 266	46.990 117.048 87.277 1.00 19.72	N
ATOM	8480	C GLN C 266	43.545 113.891 89.401 1.00 20.42	C
ATOM	8481		42.934 114.711 90.089 1.00 20.27	0
ATOM		N ARG C 267	42.949 113.027 88.580 1.00 20.42	N
ATOM		CA ARG C 267	41.499 112.910 88.461 1.00 20.37	C
ATOM		CB ARG C 267	41.107 112.392 87.071 1.00 20.42	C
ATOM		CG ARG C 267	41.586 113.274 85.908 1.00 20.99	C
ATOM		CD ARG C 267	42.687 112.641 85.035 1.00 20.90	C
ATOM		NE ARG C 267	42.895 113.349 83.768 1.00 20.87	N
ATOM		CZ ARG C 267	42.056 113.328 82.731 1.00 20.65	C
ATOM		NH1 ARG C 267		N
ATOM		NH2 ARG C 267		N
ATOM		C ARG C 267	40.938 111.982 89.533 1.00 20.31	C
ATOM		O ARG C 267	39.763 112.091 89.896 1.00 20.33	0
ATOM		N PHE C 268	41.772 111.075 90.040 1.00 20.11	N
ATOM		CA PHE C 268	41.390 110.250 91.182 1.00 19.98	C
ATOM		CB PHE C 268	42.315 109.039 91.341 1.00 20.00	C
ATOM		CG PHE C 268	41.736 107.952 92.207 1.00 20.22	C
ATOM		CD1 PHE C 268	40.581 107.276 91.816 1.00 20.27	C
ATOM		CE1 PHE C 268	40.033 106.277 92.615 1.00 20.27	C
		CZ PHE C 268	40.635 105.946 93.824 1.00 20.50	C
ATOM		CE2 PHE C 268	41.791 106.612 94.227 1.00 20.51	C
ATOM		CD2 PHE C 268	42.333 107.611 93.421 1.00 20.26	C
ATOM		C PHE C 268	41.381 111.091 92.461 1.00 19.85	C
ATOM			40.639 110.801 93.387 1.00 19.72	0
ATOM		N ALA C 269	42.207 112.133 92.500 1.00 19.78	N
ATOM		CA ALA C 269	42.180 113.105 93.589 1.00 19.64	C
ATOM		CB ALA C 269	43.423 113.990 93.541 1.00 19.62	C
ATOM		C ALA C 269	40.921 113.957 93.475 1.00 19.48	C
ATOM		O ALA C 269	40.405 114.459 94.471 1.00 19.39	0
ATOM		N HIS C 270	40.440 114.119 92.246 1.00 19.23	N
ATOM		CA HIS C 270	39.238 114.888 91.978 1.00 19.12	C
ATOM		CB HIS C 270	39.206 115.315 90.512 1.00 19.16	C
ATOM		CG HIS C 270	38.099 116.264 90.199 1.00 19.71	C
ATOM		ND1 HIS C 270	38.089 117.564 90.652 1.00 20.24	N
ATOM		CE1 HIS C 270	36.985 118.160 90.239 1.00 20.68	C
ATOM	8548	8 NE2 HIS C 270	36.277 117.290 89.541 1.00 20.51	N

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ATOM	8550 CD2 HIS C 270	36.948 116.093 89.509 1.00 19.93	С
ATOM	8552 C HIS C 270	37.965 114.111 92.336 1.00 18.88	C
<b>ATOM</b>	8553 O HIS C 270	37.127 114.609 93.081 1.00 18.65	Ο
ATOM	8554 N PHE C 271	37.835 112.896 91.803 1.00 18.69	N
ATOM	8556 CA PHE C 271	36.668 112.035 92.044 1.00 18.42	C
ATOM	8558 CB PHE C 271	36.775 110.735 91.226 1.00 18.48	C
ATOM	8561 CG PHE C 271	36.122 110.799 89.872 1.00 18.10	C
ATOM	8562 CD1 PHE C 271	36.888 110.860 88.719 1.00 17.95	C
ATOM	8564 CE1 PHE C 271	36.289 110.908 87.468 1.00 18.02	С
ATOM	8566 CZ PHE C 271	34.914 110.887 87.359 1.00 18.02	С
ATOM	8568 CE2 PHE C 271	34.135 110.813 88.504 1.00 17.76	С
ATOM	8570 CD2 PHE C 271	34.742 110.764 89.750 1.00 17.92	C
ATOM	8572 C PHE C 271	36.523 111.669 93.522 1.00 18.29	C
ATOM	8573 O PHE C 271	35.416 111.524 94.022 1.00 18.03	O
ATOM	8574 N THR C 272	37.655 111.509 94.202 1.00 18.33	N
ATOM	8576 CA THR C 272	37.685 111.099 95.603 1.00 18.31	С
ATOM	8578 CB THR C 272	39.091 110.549 95.983 1.00 18.17	C
ATOM	8580 OG1 THR C 272	39.015 109.830 97.215 1.00 18.89	O
ATOM			C
ATOM	8586 C THR C 272	37.265 112.233 96.541 1.00 18.28	C
ATOM		36.596 111.987 97.546 1.00 18.32	Ο
ATOM		37.659 113.464 96.210 1.00 18.25	N
ATOM		37.298 114.644 97.002 1.00 18.23	C
ATOM		38.113 115.878 96.570 1.00 18.38	C
ATOM		39.536 115.927 97.123 1.00 18.56	С
ATOM		40.359 117.064 96.531 1.00 20.02	C
ATOM		41.547 116.848 96.169 1.00 18.94	O
ATOM			O
ATOM		35.801 114.918 96.886 1.00 18.09	C
ATOM			Ο
ATOM		35.234 114.612 95.718 1.00 17.89	N
ATOM		33.791 114.713 95.492 1.00 17.64	C
ATOM		33.456 114.518 94.016 1.00 17.55	C
ATOM		33.964 115.597 93.066 1.00 17.32	C
ATOM		33.914 115.071 91.641 1.00 17.35	C
ATOM			C
ATOM		33.013 113.683 96.293 1.00 17.56	С
ATOM		31.890 113.948 96.704 1.00 17.68	Ο
ATOM		33.600 112.503 96.481 1.00 17.44	N
ATOM		32.977 111.439 97.266 1.00 17.50	С
ATOM		33.681 110.105 97.010 1.00 17.41	С
ATOM		32.979 111.777 98.766 1.00 17.56	C
ATOM		32.071 111.395 99.476 1.00 17.28	Ο
ATOM		34.006 112.489 99.226 1.00 17.77	N
ATOM		34.086 112.970 100.603 1.00 18.09	С
ATOM		35.524 113.513 100.918 1.00 18.03	С
ATOM		36.571 112.390 100.870 1.00 17.64	С
ATOM		37.972 112.880 100.503 1.00 16.29	С
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ATOM	8645 CG2 ILE C 276	35.581 114.201 102.279 1.00 18.02	C
ATOM	8649 C ILE C 276	33.035 114.066 100.849 1.00 18.55	С
ATOM	8650 O ILE C 276	32.465 114.139 101.940 1.00 19.12	O
ATOM	8651 N ILE C 277	32.788 114.909 99.842 1.00 18.93	N
ATOM	8653 CA ILE C 277	31.794 115.992 99.930 1.00 18.94	C
ATOM	8655 CB ILE C 277	31.920 116.946 98.719 1.00 18.90	C
ATOM	8657 CG1 ILE C 277	33.142 117.847 98.880 1.00 18.98	C
ATOM	8660 CD1 ILE C 277	33.605 118.494 97.580 1.00 19.40	C
ATOM	8664 CG2 ILE C 277	30.675 117.811 98.572 1.00 19.13	C
ATOM	8668 C ILE C 277	30.386 115.414 99.994 1.00 19.04	C
ATOM	8669 O ILE C 277	29.513 115.930 100.698 1.00 18.75	Ο
ATOM	8670 N SER C 278	30.188 114.337 99.237 1.00 19.30	N
ATOM	8672 CA SER C 278	28.929 113.597 99.207 1.00 19.22	C
ATOM	8674 CB SER C 278	28.970 112.576 98.068 1.00 18.81	C
ATOM	8677 OG SER C 278	27.859 111.716 98.118 1.00 18.64	0
ATOM	8679 C SER C 278	28.641 112.907 100.549 1.00 19.34	C
ATOM	8680 O SER C 278	27.498 112.856 100.984 1.00 19.25	O
ATOM	8681 N VAL C 279	29.680 112.393 101.203 1.00 19.70	N
ATOM	8683 CA VAL C 279	29.542 111.791 102.536 1.00 20.08	C
ATOM	8685 CB VAL C 279	30.831 111.079 102.953 1.00 20.11	C
ATOM	8687 CG1 VAL C 279	30.789 110.670 104.441 1.00 19.99	C
ATOM	8691 CG2 VAL C 279		C
ATOM	8695 C VAL C 279	29.151 112.822 103.614 1.00 20.30	C
ATOM	8696 O VAL C 279	28.395 112.498 104.535 1.00 20.11	O
ATOM	8697 N GLN C 280	29.670 114.047 103.491 1.00 20.49	N
ATOM	8699 CA GLN C 280	29.314 115.138 104.396 1.00 20.66	С
ATOM	8701 CB GLN C 280	30.201 116.365 104.155 1.00 20.88	C
ATOM	8704 CG GLN C 280	31.480 116.379 104.999 1.00 21.38	C
ATOM	8707 CD GLN C 280	32.584 117.276 104.430 1.00 22.27	С
ATOM	8708 OE1 GLN C 280	32.675 117.479 103.215 1.00 22.78	Ο
ATOM	8709 NE2 GLN C 280	33.426 117.803 105.310 1.00 21.95	N
ATOM	8712 C GLN C 280	27.840 115.506 104.233 1.00 20.80	C
ATOM	8713 O GLN C 280	27.099 115.550 105.215 1.00 20.77	Ο
ATOM	8714 N GLU C 281	27.417 115.745 102.991 1.00 20.96	N
ATOM	8716 CA GLU C 281	26.015 116.037 102.670 1.00 20.77	С
ATOM	8718 CB GLU C 281	25.820 116.136 101.165 1.00 20.94	C
ATOM	8721 CG GLU C 281	26.267 117.446 100.558 1.00 22.11	С
ATOM	8724 CD GLU C 281	26.179 117.440 99.041 1.00 23.98	C
ATOM		25.462 116.585 98.477 1.00 23.39	Ο
ATOM	8726 OE2 GLU C 281	26.852 118.288 98.409 1.00 25.90	О
ATOM	8727 C GLU C 281	25.072 114.962 103.176 1.00 20.66	C
ATOM	8728 O GLU C 281	24.012 115.273 103.703 1.00 20.93	Ο
ATOM	8729 N ILE C 282	25.456 113.703 103.003 1.00 20.10	N
ATOM	8731 CA ILE C 282	24.625 112.581 103.424 1.00 20.08	C
ATOM	8733 CB ILE C 282	25.168 111.241 102.838 1.00 19.67	C
ATOM		24.892 111.181 101.326 1.00 20.08	С
ATOM	8738 CD1 ILE C 282	25.763 110.181 100.558 1.00 18.91	C
ATOM	8742 CG2 ILE C 282	24.530 110.039 103.508 1.00 19.32	C

C ATOM 8746 C ILE C 282 24,471 112.522 104.958 1.00 20.40 23.381 112.236 105.455 1.00 20.50 0 ATOM 8747 O ILE C 282 N 25.538 112.797 105.705 1.00 20.21 ATOM 8748 N VAL C 283 25.423 112.833 107.154 1.00 20.27  $\mathbf{C}$ ATOM 8750 CA VAL C 283 26.806 112.938 107.867 1.00 20.52 C ATOM 8752 CB VAL C 283  $\mathbf{C}$ 26.633 113.169 109.379 1.00 20.58 ATOM 8754 CG1 VAL C 283 27.647 111.682 107.624 1.00 20.67 C ATOM 8758 CG2 VAL C 283 24.534 114.009 107.556 1.00 20.22 C ATOM 8762 C VAL C 283 0 23.676 113.865 108.419 1.00 20.19 ATOM 8763 O VAL C 283 24.731 115.167 106.930 1.00 20.08 N ATOM 8764 N ASP C 284  $\mathbf{C}$ 23.940 116.339 107.276 1.00 20.18 ATOM 8766 CA ASP C 284 24.420 117.573 106.530 1.00 20.38 C ATOM 8768 CB ASP C 284 C ATOM 8771 CG ASP C 284 25.716 118.093 107.058 1.00 21.04 26.314 118.964 106.387 1.00 22.47 O ATOM 8772 OD1 ASP C 284 O 26.217 117.690 108.132 1.00 23.11 ATOM 8773 OD2 ASP C 284 22.473 116.103 106.965 1.00 20.14 C ATOM 8774 C ASP C 284 21.614 116.437 107.772 1.00 19.94 0 ATOM 8775 O ASP C 284 22.206 115.515 105.803 1.00 19.83 N ATOM 8776 N PHE C 285 20.852 115.144 105.409 1.00 20.41 C ATOM 8778 CA PHE C 285 C 20.817 114.581 103.973 1.00 20.04 ATOM 8780 CB PHE C 285 C 19.473 114.040 103.557 1.00 19.95 ATOM 8783 CG PHE C 285 18.520 114.868 102.973 1.00 21.97 C ATOM 8784 CD1 PHE C 285 C 17.260 114.370 102.591 1.00 20.13 ATOM 8786 CE1 PHE C 285 16.954 113.049 102.813 1.00 20.23 C ATOM 8788 CZ PHE C 285 17.895 112.212 103.409 1.00 19.22  $\mathbf{C}$ ATOM 8790 CE2 PHE C 285 19.142 112.711 103.779 1.00 19.53 C ATOM 8792 CD2 PHE C 285 С 20.220 114.150 106.407 1.00 21.03 ATOM 8794 C PHE C 285 O 19.068 114.320 106.798 1.00 21.37 ATOM 8795 O PHE C 285 20.960 113.141 106.844 1.00 21.81 N ATOM 8796 N ALA C 286 C 20.373 112.111 107.709 1.00 22.58 ATOM 8798 CA ALA C 286 21.329 110.961 107.908 1.00 22.49  $\mathbf{C}$ ATOM 8800 CB ALA C 286 ATOM 8804 C ALA C 286 19.932 112.678 109.058 1.00 22.87 C O 18.931 112.253 109.613 1.00 22.86 ATOM 8805 O ALA C 286 20.655 113.663 109.564 1.00 23.73 N ATOM 8806 N LYS C 287 20.316 114.248 110.865 1.00 24.44 C ATOM 8808 CA LYS C 287 C ATOM 8810 CB LYS C 287 21,479 115,080 111,405 1.00 24,36 22.745 114.257 111.706 1.00 25.81 C ATOM 8813 CG LYS C 287 C ATOM 8816 CD LYS C 287 23.046 114.156 113.222 1.00 28.99 C 24.542 114.338 113.566 1.00 30.19 ATOM 8819 CE LYS C 287 N 25.172 113.101 114.155 1.00 30.71 ATOM 8822 NZ LYS C 287 19.016 115.071 110.802 1.00 24.58 C ATOM 8826 C LYS C 287 O ATOM '8827 O LYS C 287 18.347 115.255 111.820 1.00 24.92 18.666 115.526 109.601 1.00 24.74 N ATOM 8828 N GLN C 288 C ATOM 8830 CA GLN C 288 17.427 116.262 109.343 1.00 24.96 C 17.668 117.333 108.265 1.00 24.98 ATOM 8832 CB GLN C 288  $\mathbf{C}$ ATOM 8835 CG GLN C 288 18.403 118.574 108.803 1.00 27.94  $\mathbf{C}$ 19.032 119.438 107.711 1.00 31.20 ATOM 8838 CD GLN C 288 18.397 120.370 107.199 1.00 34.35 O ATOM 8839 OE1 GLN C 288

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ATOM	8840 NE2 GLN C 288	20.282 119.139 107.362 1.00 32.82	N
ATOM	8843 C GLN C 288	16.240 115.366 108.946 1.00 24.43	С
ATOM	8844 O GLN C 288	15.141 115.880 108.780 1.00 24.51	O
ATOM	8845 N VAL C 289	16.459 114.057 108.763 1.00 23.60	N
ATOM	8847 CA VAL C 289	15.357 113.121 108.516 1.00 23.06	С
ATOM	8849 CB VAL C 289	15.836 111.779 107.893 1.00 22.95	С
ATOM	8851 CG1 VAL C 289		С
ATOM	8855 CG2 VAL C 289	16.447 112.015 106.525 1.00 22.73	C
ATOM	8859 C VAL C 289	14.640 112.873 109.832 1.00 23.03	C
ATOM		15.253 112.367 110.771 1.00 23.09	O
ATOM	8861 N PRO C 290	13.375 113.293 109.944 1.00 22.96	N
ATOM	8862 CA PRO C 290	12.570 113.027 111.150 1.00 22.76	С
ATOM	8864 CB PRO C 290	11.154 113.499 110.731 1.00 22.83	C
ATOM	8867 CG PRO C 290	11.430 114.619 109.764 1.00 22.49	С
ATOM	8870 CD PRO C 290	12.621 114.123 108.987 1.00 23.43	C
ATOM	8873 C PRO C 290	12.567 111.554 111.590 1.00 21.65	С
ATOM	8874 O PRO C 290	12.309 110.663 110.788 1.00 21.39	O
ATOM	8875 N GLY C 291	12.882 111.321 112.860 1.00 20.79	N
ATOM	8877 CA GLY C 291	13.035 109.984 113.398 1.00 20.41	C
ATOM	8880 C GLY C 291		С
ATOM	8881 O GLY C 291	14.763 108.826 114.547 1.00 20.00	O
ATOM	8882 N PHE C 292	15.414 110.179 112.866 1.00 20.14	N
ATOM	8884 CA PHE C 292	16.824 109.792 112.928 1.00 20.37	C
ATOM	8886 CB PHE C 292	17.650 110.499 111.854 1.00 20.24	С
ATOM	8889 CG PHE C 292	19.063 109.980 111.738 1.00 19.88	C
ATOM	8890 CD1 PHE C 292	19.313 108.730 111.194 1.00 19.73	C
	8892 CE1 PHE C 292	20.623 108.228 111.082 1.00 20.95	C
ATOM		21.699 108.993 111.528 1.00 22.41	C
ATOM	8896 CE2 PHE C 292	21.454 110.268 112.078 1.00 22.39	C
ATOM	8898 CD2 PHE C 292	20.139 110.750 112.172 1.00 20.57	C
ATOM	8900 C PHE C 292	17.417 110.088 114.282 1.00 20.65	C
ATOM	8901 O PHE C 292		О
ATOM	8902 N LEU C 293		N
ATOM		17.651 111.623 116.119 1.00 21.58	C
	8906 CB LEU C 293	17.866 113.149 116.172 1.00 22.24	С
	8909 CG LEU C 293	18.982 113.604 115.169 1.00 24.54	С
ATOM		18.918 115.091 114.766 1.00 26.29	С
ATOM	8915 CD2 LEU C 293	20.399 113.299 115.679 1.00 25.36	C
ATOM	8919 C LEU C 293	16.890 111.047 117.328 1.00 21.07	С
ATOM	8920 O LEU C 293	17.216 111.353 118.436 1.00 20.52	0
ATOM	8921 N GLN C 294	15.916 110.165 117.076 1.00 21.25	N
ATOM	8923 CA GLN C 294	15.207 109.392 118.107 1.00 21.11	C
ATOM		13.787 108.996 117.617 1.00 20.66	C
	8928 CG GLN C 294	12.756 110.142 117.485 1.00 20.76	C
	8931 CD GLN C 294	11.395 109.673 116.957 1.00 20.07	C
ATOM		10.885 108.635 117.368 1.00 22.27	О
ATOM		10.819 110.435 116.044 1.00 21.53	N
ATOM	8936 C GLN C 294	15.995 108.108 118.460 1.00 21.18	С

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ATOM	8937 O GLN C 294	15.890 107.565 119.573 1.00 21.79	О
ATOM	8938 N LEU C 295	16.762 107.618 117.489 1.00 20.56	N
ATOM	8940 CA LEU C 295	17.617 106.457 117.676 1.00 19.97	С
ATOM	8942 CB LEU C 295	18.184 106.000 116.331 1.00 19.84	C
ATOM	8945 CG LEU C 295	17.120 105.608 115.308 1.00 21.51	C
ATOM	8947 CD1 LEU C 295	17.677 105.567 113.880 1.00 21.63	C
ATOM	8951 CD2 LEU C 295	16.508 104.280 115.724 1.00 22.38	С
ATOM	8955 C LEU C 295	18.776 106.814 118.579 1.00 18.98	C
ATOM	8956 O LEU C 295	19.174 107.979 118.657 1.00 18.87	0
ATOM	8957 N GLY C 296	19.334 105.794 119.222 1.00 18.24	N
ATOM	8959 CA GLY C 296	20.553 105.924 119.992 1.00 17.51	C
ATOM	8962 C GLY C 296	21.708 106.223 119.064 1.00 17.28	C
ATOM	8963 O GLY C 296	21.676 105.904 117.864 1.00 16.50	0
ATOM	8964 N ARG C 297	22.722 106.867 119.610 1.00 17.04	N
ATOM	8966 CA ARG C 297	23.866 107.274 118.814 1.00 17.85	C
ATOM	8968 CB ARG C 297	24.914 107.939 119.702 1.00 18.51	C
ATOM	8971 CG ARG C 297	25.970 108.701 118.932 1.00 21.03	C
ATOM	8974 CD ARG C 297	26.565 109.885 119.697 1.00 24.13	C
ATOM	8977 NE ARG C 297	27.446 110.642 118.814 1.00 26.89	N
ATOM	8979 CZ ARG C 297	28.688 110.280 118.488 1.00 28.95	C
ATOM	8980 NH1 ARG C 297	29.245 109.170 118.989 1.00 28.90	N
ATOM	8983 NH2 ARG C 297	29.386 111.044 117.654 1.00 30.13	N
ATOM	8986 C ARG C 297	24.500 106.110 118.072 1.00 17.21	C
ATOM	8987 O ARG C 297	24.996 106.292 116.970 1.00 17.19	0 N
ATOM	8988 N GLU C 298	24.485 104.927 118.684 1.00 17.07	N C
ATOM	8990 CA GLU C 298	25.127 103.732 118.118 1.00 17.04	C
ATOM	8992 CB GLU C 298	25.210 102.597 119.172 1.00 17.47	C
ATOM	8995 CG GLU C 298	26.611 102.225 119.675 1.00 20.19 26.928 102.699 121.098 1.00 24.27	C
ATOM		27.441 101.898 121.941 1.00 26.54	O
ATOM		26.710 103.894 121.377 1.00 26.08	0
ATOM		24.375 103.269 116.857 1.00 16.16	c
ATOM		24.988 102.930 115.857 1.00 15.40	Ö
ATOM		23.043 103.275 116.903 1.00 15.81	N
ATOM		22.237 102.947 115.717 1.00 15.58	C
	9005 CA ASP C 299	20.776 102.702 116.079 1.00 15.51	c
ATOM		20.580 101.419 116.853 1.00 17.40	C
ATOM		21.597 100.704 117.109 1.00 17.79	o
ATOM		19,440 101,049 117,244 1.00 18.34	ŏ
ATOM		22.323 104.014 114.631 1.00 14.43	C
ATOM		22.216 103.687 113.475 1.00 14.52	ŏ
ATOM ATOM		22.528 105.270 115.010 1.00 13.51	N ·
ATOM		22.701 106.360 114.061 1.00 13.20	C
ATOM		22.832 107.720 114.787 1.00 13.53	Č
ATOM		21.478 108.370 115.142 1.00 14.58	Č
ATOM		21.589 109.678 115.924 1.00 16.44	č
ATOM		22.618 110.348 115.897 1.00 18.72	Ö
ATOM		20.521 110.036 116.625 1.00 18.19	N
LY T O IAI	7021 1122 CD11 C 300		- '

ATOM	9030	C GLN C 300	23.941 106.081 113.219 1.00 12.90	C
ATOM	9031		23.890 106.120 111.982 1.00 12.11	Ο
ATOM		N ILE C 301	25.042 105.771 113.907 1.00 12.62	N
ATOM		CA ILE C 301	26.318 105.476 113.264 1.00 12.44	С
ATOM		CB ILE C 301	27.455 105.338 114.313 1.00 12.75	С
ATOM		CG1 ILE C 301	27.860 106.724 114.830 1.00 13.07	С
ATOM		CD1 ILE C 301	28.710 106.675 116.118 1.00 13.04	C
ATOM		CG2 ILE C 301	28.698 104.619 113.728 1.00 12.96	C
ATOM		C ILE C 301	26.210 104.240 112.389 1.00 12.02	C
ATOM	9050		26.632 104.279 111.247 1.00 12.15	0
ATOM		N ALA C 302	25.607 103.172 112.897 1.00 11.82	N
ATOM		CA ALA C 302	25.437 101.932 112.124 1.00 12.16	C
ATOM		CB ALA C 302	24.883 100.831 113.008 1.00 12.16	Ċ
		C ALA C 302	24.542 102.103 110.887 1.00 12.54	c
ATOM			24.791 101.527 109.835 1.00 12.70	Ŏ
ATOM	9060	N LEU C 303	23.498 102.896 111.009 1.00 13.13	N
ATOM	-		22.589 103.099 109.891 1.00 13.77	Ĉ
ATOM		CA LEU C 303	21.304 103.819 110.334 1.00 14.12	Č
ATOM		CB LEU C 303	20.322 102.935 111.135 1.00 15.21	Č
ATOM		CG LEU C 303		C
ATOM		CD1 LEU C 303		C
ATOM		CD2 LEU C 303	23.306 103.860 108.794 1.00 13.54	c
ATOM		C LEU C 303	23.239 103.469 107.649 1.00 12.29	0
ATOM	9079			N
ATOM		N LEUC 304	24.036 104.903 109.171 1.00 14.20	
ATOM		CA LEU C 304	24.788 105.725 108.220 1.00 15.18	C
ATOM		CB LEU C 304	25.385 106.950 108.907 1.00 15.36	C
ATOM		CG LEU C 304	24.481 108.164 109.057 1.00 15.79	C
ATOM		CD1 LEU C 304		C
ATOM		CD2 LEU C 304		C
ATOM		C LEUC 304	25.913 104.983 107.527 1.00 15.76	C
ATOM	9098		26.124 105.161 106.347 1.00 16.32	O
ATOM		N LYSC 305	26.631 104.161 108.276 1.00 16.60	N
ATOM		CA LYS C 305	27.737 103.358 107.751 1.00 16.99	С
ATOM		CB LYS C 305	28.447 102.638 108.909 1.00 16.84	С
ATOM		CG LYS C 305	29.930 102.380 108.702 1.00 17.61	C
		CD LYS C 305	30.525 101.476 109.823 1.00 17.48	C
ATOM		CE LYS C 305	31.043 100.146 109.246 1.00 18.13	C
ATOM	9115	NZ LYS C 305	31.784 99.317 110.254 1.00 17.66	N
ATOM	9119	C LYSC 305	27.267 102.343 106.691 1.00 17.22	C
ATOM	9120	O LYSC305	27.893 102.188 105.641 1.00 17.91	О
ATOM	9121	N ALA C 306	26.163 101.659 106.952 1.00 17.29	N
ATOM	9123	CA ALA C 306		С
ATOM	9125	CB ALA C 306	24.718 99.703 106.705 1.00 17.28	C
ATOM	9129	C ALA C 306	24.949 101.325 104.820 1.00 17.94	C
		O ALA C 306	24.726 100.695 103.794 1.00 18.97	O
ATOM	9131	N SER C 307	24.617 102.595 104.962 1.00 17.58	N
ATOM	9133	CA SER C 307	23.710 103.250 104.054 1.00 17.92	C
ATOM	9135	CB SER C 307	22.611 103.921 104.866 1.00 17.61	С

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ATOM	9138	OG SER C 307	21.768 104.633 104.024 1.00 20.18	Ο
ATOM		C SER C 307	24.360 104.304 103.183 1.00 17.67	C
ATOM	9141		23.809 104.652 102.137 1.00 17.60	Ο
		N THR C 308	25.506 104.825 103.618 1.00 17.29	N
ATOM		CA THR C 308	26.125 105.959 102.965 1.00 17.23	C
ATOM		CB THR C 308	27.434 106.362 103.702 1.00 17.35	C
ATOM		OG1 THR C 308	27.109 107.106 104.891 1.00 17.54	Ο
ATOM		CG2 THR C 308	28.291 107.348 102.868 1.00 17.21	С
		C THR C 308	26.372 105.642 101.482 1.00 17.56	С
ATOM	9155		26.035 106.446 100.611 1.00 17.67	O
ATOM		N ILE C 309	26.923 104.467 101.198 1.00 17.29	N
ATOM		CA ILE C 309	27.253 104.119 99.821 1.00 17.69	С
		CB ILE C 309	28.162 102.861 99.742 1.00 17.33	С
ATOM		CG1 ILE C 309	28.721 102.688 98.331 1.00 17.70	С
ATOM		CD1 ILE C 309	29.720 103.754 97.938 1.00 18.00	С
ATOM		CG2 ILE C 309	27.410 101.612 100.150 1.00 17.46	C
ATOM		C ILE C 309	25.988 103.953 98.987 1.00 17.79	С
ATOM	9174		25.950 104.360 97.835 1.00 18.04	O
ATOM		N GLUC310	24.951 103.376 99.581 1.00 17.94	N
ATOM		CA GLU C 310	23.710 103.120 98.859 1.00 17.79	C
ATOM		CB GLU C 310	22.748 102.262 99.693 1.00 18.15	C
		CG GLU C 310	23.042 100.776 99.576 1.00 19.42	C
		CD GLU C 310	22.258 99.903 100.554 1.00 21.85	C
ATOM		OE1 GLU C 310	21.036 100.097 100.753 1.00 23.35	Ο
ATOM		<b>OE2 GLU C 310</b>		О
ATOM	9188	C GLU C 310	23.050 104.419 98.471 1.00 17.12	C
ATOM	9189	O GLU C 310	22.480 104.525 97.397 1.00 16.96	О
ATOM	9190	N ILE C 311	23.129 105.404 99.358 1.00 16.43	N
ATOM	9192	CA ILE C 311	22.578 106.728 99.094 1.00 15.75	C
ATOM	9194	CB ILE C 311	22.456 107.529 100.423 1.00 15.35	С
ATOM		CG1 ILE C 311	21.415 106.873 101.335 1.00 16.03	C
ATOM			21.551 107.259 102.769 1.00 16.89	С
ATOM		CG2 ILE C 311	22.061 108.947 100.163 1.00 14.17	С
ATOM	9207	C ILE C 311	23.399 107.492 98.040 1.00 15.16	С
ATOM			22.859 108.298 97.303 1.00 14.74	0
		N MET C 312	24.699 107.229 97.985 1.00 15.30	N
		CA MET C 312		C
		CB MET C 312	27.070 107.524 97.347 1.00 15.73	C
		CG MET C 312	27.768 108.490 98.286 1.00 16.56	С
		SD MET C 312	29.474 107.991 98.640 1.00 20.13	S
		CE MET C 312	30.310 108.784 97.288 1.00 17.77	С
		C MET C 312	25.278 107.471 95.596 1.00 14.87	C
		O MET C 312	25.300 108.307 94.702 1.00 14.39	0
		N LEUC313	24.952 106.193 95.419 1.00 14.90	N
		CA LEU C 313	24.505 105.629 94.154 1.00 15.60	С
		CB LEU C 313	24.507 104.098 94.240 1.00 15.52	C
		CG LEU C 313	25.902 103.473 94.345 1.00 17.07	C
ATOM	9235	CD1 LEU C 313	25.806 101.985 94.642 1.00 17.63	С

ATOM	9239	CD2 LEU C 313	26.747 103.716 93.058 1.00 16.98	C
ATOM		C LEU C 313	23.114 106.109 93.734 1.00 15.79	C
ATOM		O LEU C 313	22.864 106.313 92.550 1.00 15.46	Ο
ATOM		N LEUC314	22.204 106.255 94.691 1.00 16.14	N
		CA LEU C 314	20.868 106.790 94.405 1.00 16.84	С
ATOM		CB LEU C 314	19.988 106.744 95.646 1.00 17.11	С
ATOM	9252	CG LEU C 314	18.631 106.002 95.673 1.00 18.67	C
		CD1 LEU C 314	18.454 104.919 94.622 1.00 19.10	C
		CD2 LEU C 314	18.413 105.431 97.060 1.00 18.21	С
ATOM		C LEU C 314	21.008 108.233 93.930 1.00 17.27	C
ATOM	9263	O LEU C 314	20.398 108.652 92.947 1.00 16.54	O
<b>ATOM</b>	9264	N GLU C 315	21.849 108.984 94.625 1.00 18.07	N
<b>ATOM</b>	9266	CA GLU C 315	22.054 110.384 94.302 1.00 18.87	С
<b>ATOM</b>	9268	CB GLU C 315	22.813 111.098 95.425 1.00 19.21	C
ATOM	9271	CG GLU C 315	21.916 111.532 96.579 1.00 21.88	C
ATOM	9274	CD GLU C 315	20.858 112.565 96.165 1.00 24.16	C
ATOM	9275	OE1 GLU C 315	21.225 113.574 95.497 1.00 21.62	0
		OE2 GLU C 315	19.663 112.350 96.523 1.00 26.27	0
ATOM	9277	C GLU C 315	22.791 110.539 92.983 1.00 18.54	C
ATOM	9278	O GLU C 315	22.670 111.569 92.332 1.00 18.60	O
<b>ATOM</b>	9279	N THR C 316	23.551 109.518 92.601 1.00 18.27	N
ATOM	9281	CA THR C 316	24.222 109.492 91.303 1.00 18.13	C
<b>ATOM</b>	9283	CB THR C 316	25.325 108.403 91.293 1.00 18.21	C
<b>ATOM</b>	9285	OG1 THR C 316	26.248 108.631 92.366 1.00 17.85	O
<b>ATOM</b>	9287	CG2 THR C 316	26.194 108.503 90.056 1.00 17.93	С
ATOM	9291	C THR C 316	23.207 109.252 90.182 1.00 17.91	C
ATOM	9292	O THR C 316	23.266 109.901 89.151 1.00 17.49	O
ATOM	9293	N ALA C 317	22.273 108.334 90.409 1.00 18.09	N
ATOM	9295	CA ALA C 317	21.209 108.043 89.455 1.00 18.68	С
<b>ATOM</b>	9297	CB ALA C 317	20.323 106.940 89.984 1.00 18.51	C
<b>ATOM</b>	9301	C ALA C 317		C
<b>ATOM</b>	9302	O ALA C 317	20.025 109.573 88.041 1.00 19.81	O
		N ARG C 318	20.089 109.999 90.259 1.00 19.76	N
ATOM	9305	CA ARG C 318	19.295 111.223 90.255 1.00 20.42	C
		CB ARG C 318	19.186 111.748 91.700 1.00 20.76	C
		CG ARG C 318	18.008 112.671 91.970 1.00 22.67	C
		CD ARG C 318	17.778 112.996 93.461 1.00 25.30	С
		NE ARG C 318	17.341 114.383 93.585 1.00 28.53	N
		CZ ARG C 318	18.118 115.416 93.905 1.00 31.39	C
		NH1 ARG C 318		N
		NH2 ARG C 318		N
		C ARG C 318	19.867 112.314 89.344 1.00 20.16	C
ATOM			19.115 113.096 88.762 1.00 19.94	0
ATOM			21.196 112.350 89.231 1.00 20.23	N
ATOM		CA ARG C 319	21.914 113.378 88.481 1.00 20.06	C
ATOM		CB ARG C 319	23.107 113.855 89.296 1.00 20.26	C
		CG ARG C 319	22.759 114.309 90.693 1.00 20.52	C
ATOM	9337	CD ARG C 319	23.907 114.217 91.677 1.00 21.72	С
			•	

ATOM	9340 NE ARG C 319	23.590 114.904 92.926 1.00 22.55	N
	9342 CZ ARG C 319		C
ATOM		25.215 116.541 92.715 1.00 24.46	N
	9346 NH2 ARG C 319	23.821 116.524 94.526 1.00 27.00	N
	9349 C ARG C 319	22.418 112.867 87.145 1.00 19.89	С
ATOM	9350 O ARG C 319	23.149 113.567 86.433 1.00 20.03	Ο
ATOM	9351 N TYR C 320	22.037 111.642 86.810 1.00 19.62	N
	9353 CA TYR C 320	22.320 111.076 85.504 1.00 19.68	C
	9355 CB TYR C 320	22.233 109.552 85.567 1.00 19.69	C
	9358 CG TYR C 320	22.370 108.864 84.234 1.00 19.58	C
ATOM	9359 CD1 TYR C 320	23.619 108.618 83.689 1.00 19.48	С
ATOM	9361 CE1 TYR C 320	23.752 107.980 82.469 1.00 20.36	C
ATOM	9363 CZ TYR C 320	22.622 107.569 81.780 1.00 20.53	С
	9364 OH TYR C 320	22.766 106.938 80.565 1.00 21.22	Ο
ATOM		21.364 107.799 82.310 1.00 20.30	C
	9368 CD2 TYR C 320	21.247 108.444 83.530 1.00 19.79	C
	9370 C TYR C 320	21.314 111.626 84.498 1.00 19.59	C
	9371 O TYR C 320	20.112 111.379 84.597 1.00 19.48	O
	9372 N ASN C 321	21.815 112.392 83.545 1.00 19.68	N
	9374 CA ASN C 321	20.994 112.914 82.467 1.00 20.13	С
	9376 CB ASN C 321	21.498 114.318 82.075 1.00 20.08	С
ATOM	9379 CG ASN C 321		C
	9380 OD1 ASN C 321		Ο
	9381 ND2 ASN C 321		N
	9384 C ASN C 321	21.097 111.899 81.331 1.00 20.57	C
ATOM		22.182 111.673 80.800 1.00 20.58	Ο
	9386 N HIS C 322	19.991 111.246 80.988 1.00 21.24	N
	9388 CA HIS C 322	20.062 110.134 80.036 1.00 22.18	С
ATOM		18.906 109.134 80.230 1.00 22.76	С
ATOM		19.082 107.859 79.450 1.00 24.65	С
ATOM		20.283 107.180 79.393 1.00 26.22	N
	9396 CE1 HIS C 322		С
	9398 NE2 HIS C 322	18.914 106.083 78.165 1.00 26.75	N
	9400 CD2 HIS C 322	18.223 107.163 78.666 1.00 25.69	С
	9402 C HIS C 322	20.157 110.567 78.564 1.00 21.92	С
	9403 O HIS C 322	20.459 109.737 77.708 1.00 21.93	0
	9404 N GLU C 323	19.920 111.848 78.275 1.00 21.88	N
	9406 CA GLU C 323	20.111 112.377 76.920 1.00 21.96	С
	9408 CB GLU C 323	19.542 113.791 76.792 1.00 22.16	С
	9411 CG GLU C 323	18.038 113.911 76.989 1.00 22.94	C
	9414 CD GLU C 323	17.628 115.303 77.441 1.00 24.39	C
	9415 OE1 GLU C 323		O
	9416 OE2 GLU C 323		Ö
	9417 C GLU C 323	21.590 112.405 76.530 1.00 21.66	c
	9417 C GLO C 323 9418 O GLU C 323	21.941 112.094 75.392 1.00 21.39	Ö
ATOM	,	22.450 112.771 77.483 1.00 21.55	N
	9421 CA THR C 324		C
	9421 CA THR C 324 9423 CB THR C 324	24.458 114.149 77.996 1.00 21.46	C
A I OIM	7723 CD 111K C 324	27.730 117.172 //.220 1.00 21.70	$\sim$

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24.155 114.039 79.395 1.00 21.39
                                                                 0
ATOM 9425 OG1 THR C 324
                              23.788 115.458 77.562 1.00 21.27
                                                                 C
ATOM 9427 CG2 THR C 324
                            24.681 111.676 77.606 1.00 21.34
                                                               C
ATOM 9431 C THR C 324
                            25.782 111.411 77.016 1.00 21.11
ATOM 9432 O THR C 324
                                                               0
                            24.103 110.903 78.554 1.00 21.19
                                                               N
ATOM 9433 N GLU C 325
                             24.776 109.764 79.197 1.00 21.16
                                                                C
ATOM 9435 CA GLU C 325
                                                                C
ATOM 9437 CB GLU C 325
                             25.119 108.669 78.158 1.00 21.14
                             24.070 108.514 77.053 1.00 20.93
                                                                C
ATOM 9440 CG GLU C 325
                             24.344 107.353 76.119 1.00 20.84
                                                                C
ATOM 9443 CD GLU C 325
                                                                 0
                              24.703 107.598 74.945 1.00 21.88
ATOM 9444 OE1 GLU C 325
                              24.187 106.197 76.549 1.00 21.05
                                                                 0
ATOM 9445 OE2 GLU C 325
                            26.036 110.269 79.970 1.00 21.06
                                                                C
ATOM 9446 C GLU C 325
                            27.224 109.694 79.857 1.00 21.38
                                                                0
ATOM 9447 O GLU C 325
                            25.708 111.351 80.773 1.00 20.97
ATOM 9448 N CYS C 326
                             26.638 112.032 81.698 1.00 20.62
                                                                C
ATOM 9450 CA CYS C 326
                                                                C
                             27.039 113.380 81.119 1.00 20.62
ATOM 9452 CB CYS C 326
                                                                S
                             28.207 113.283 79.778 1.00 21.03
ATOM 9455 SG CYS C 326
                                                                C
                            26.026 112.336 83.057 1.00 20.08
ATOM 9456 C CYS C 326
                            24.871 112.744 83.144 1.00 19.85
                                                                \mathbf{O}
ATOM 9457 O CYS C 326
                            26.835 112.188 84.104 1.00 19.97
                                                               N
ATOM 9458 N ILE C 327
                            26.443 112.495 85.478 1.00 19.57
                                                                C
ATOM 9460 CA ILE C 327
                             27.039 111.441 86.438 1.00 19.77
                                                                C
ATOM 9462 CB ILE C 327
                             26.508 110.036 86.107 1.00 19.43
                                                                C
ATOM 9464 CG1 ILE C 327
                                                                \mathbf{C}
                             27.416 108.924 86.561 1.00 18.68
ATOM 9467 CD1 ILE C 327
                                                                C
                             26.765 111.821 87.922 1.00 19.37
ATOM 9471 CG2 ILE C 327
                            26.990 113.869 85.852 1.00 19.48
                                                               C
ATOM 9475 C ILE C 327
                            28.184 114.129 85.672 1.00 19.10
                                                               0
ATOM 9476 O ILE C 327
                             26.135 114.739 86.383 1.00 19.40
                                                                N
ATOM 9477 N THR C 328
                              26.593 116.023 86.908 1.00 19.52
                                                                 C
ATOM 9479 CA THR C 328
                              25.653 117.175 86.477 1.00 19.52
                                                                 \mathbf{C}
ATOM 9481 CB THR C 328
                                                                 0
ATOM 9483 OG1 THR C 328
                              25.854 117.485 85.092 1.00 19.32
                              26.014 118.488 87.177 1.00 19.86
                                                                 C
ATOM 9485 CG2 THR C 328
                             26.711 115.954 88.436 1.00 19.67
                                                                C
ATOM 9489 C THR C 328
                             25.769 115.566 89.123 1.00 19.59
                                                                0
ATOM 9490 O THR C 328
                                                                N
ATOM 9491 N PHE C 329
                             27.891 116.292 88.950 1.00 19.88
                                                                 C
                             28.098 116.475 90.379 1.00 19.94
ATOM 9493 CA PHE C 329
                                                                 \mathbf{C}
                             29.397 115.806 90.819 1.00 19.76
ATOM 9495 CB PHE C 329
                                                                 C
ATOM 9498 CG PHE C 329
                              29.383 114.313 90.717 1.00 18.14
                                                                 C
                              30.363 113.649 89.997 1.00 16.96
ATOM 9499 CD1 PHE C 329
                                                                 C
                              30.365 112.273 89.906 1.00 16.32
ATOM 9501 CE1 PHE C 329
                                                                 C
ATOM 9503 CZ PHE C 329
                             29.394 111.547 90.530 1.00 16.17
                              28.409 112.194 91.261 1.00 16.95
                                                                 C
ATOM 9505 CE2 PHE C 329
                                                                 C
                              28.410 113.574 91.351 1.00 16.75
ATOM 9507 CD2 PHE C 329
                             28.152 117.961 90.744 1.00 20.54
                                                                C
ATOM 9509 C PHE C 329
                             28.429 118.823 89.898 1.00 20.45
ATOM 9510 O PHE C 329
                                                                0
ATOM 9511 N LEU C 330
                             27.919 118.237 92.025 1.00 21.19
                                                                N
ATOM 9513 CA LEU C 330
                             27.909 119.601 92.551 1.00 21.69
                                                                 C
                             29.313 120.228 92.474 1.00 21.81
ATOM 9515 CB LEU C 330
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ATOM	9518	CG LEU C 330	30.423 119.461 93.203 1.00 22.11	·C
ATOM		CD1 LEU C 330	31.743 120.211 93.078 1.00 22.18	С
ATOM		CD2 LEU C 330	30.072 119.207 94.672 1.00 22.18	С
ATOM		C LEU C 330	26.844 120.444 91.840 1.00 21.87	C
ATOM		O LEU C 330	25.654 120.194 92.023 1.00 22.10	Ο
ATOM		N LYS C 331	27.261 121.424 91.044 1.00 22.12	N
ATOM		CA LYS C 331	26.334 122.295 90.322 1.00 22.48	С
		CB LYS C 331	26.458 123.749 90.834 1.00 22.55	С
		CG LYS C 331	26.826 124.834 89.803 1.00 22.78	С
		CD LYS C 331	26.989 126.218 90.460 1.00 23.07	С
ATOM		CE LYS C 331	28.382 126.811 90.254 1.00 23.08	С
ATOM		NZ LYS C 331	28.572 127.396 88.894 1.00 23.45	N
ATOM		C LYS C 331	26.541 122.200 88.808 1.00 22.62	C
		O LYS C 331	25.567 122.128 88.063 1.00 22.83	O
ATOM		N ASP C 332	27.799 122.180 88.366 1.00 22.77	N
ATOM		CA ASP C 332	28.136 122.276 86.943 1.00 22.91	C
ATOM	_	CB ASP C 332	28.802 123.631 86.668 1.00 22.95	C
ATOM		CG ASP C 332	27.814 124.690 86.214 1.00 23.26	C
ATOM		OD1 ASP C 332	26.648 124.671 86.676 1.00 25.08	0
ATOM		OD2 ASP C 332	28.117 125.586 85.405 1.00 21.44	0
ATOM		C ASP C 332	29.052 121.178 86.409 1.00 22.95	С
ATOM		O ASP C 332	29.148 121.017 85.196 1.00 23.16	O
ATOM		N PHE C 333	29.738 120.441 87.280 1.00 23.00	N
ATOM		CA PHE C 333	30.737 119.471 86.822 1.00 22.97	С
ATOM		CB PHE C 333	31.664 119.047 87.969 1.00 23.05	C
ATOM		CG PHE C 333	32.486 120.174 88.566 1.00 23.21	C
ATOM			32.605 121.412 87.940 1.00 23.89	С
ATOM		CE1 PHE C 333	33.371 122.429 88.504 1.00 23.79	C
ATOM		CZ PHE C 333	34.024 122.218 89.701 1.00 23.41	C
ATOM		CE2 PHE C 333	33.916 120.996 90.334 1.00 23.59	C
ATOM		CD2 PHE C 333	33.151 119.981 89.768 1.00 23.64	С
ATOM		C PHE C 333	30.054 118.243 86.224 1.00 22.95	С
ATOM		O PHE C 333	29.189 117.651 86.859 1.00 23.10	Ο
		N THR C 334	30.448 117.876 85.004 1.00 22.92	N
		CA THR C 334	29.836 116.767 84.263 1.00 22.91	С
ATOM		CB THR C 334	29.052 117.321 83.039 1.00 22.95	С
ATOM		OG1 THR C 334	27.653 117.052 83.200 1.00 23.46	O
		CG2 THR C 334	29.402 116.617 81.733 1.00 23.14	С
ATOM		C THR C 334	30.887 115.738 83.846 1.00 22.78	C
ATOM			32.030 116.093 83.563 1.00 22.83	О
		N TYR C 335	30.483 114.467 83.798 1.00 22.76	N
		CA TYR C 335	31.402 113.357 83.552 1.00 22.83	С
		CB TYR C 335	31.949 112.809 84.865 1.00 22.65	С
		CG TYR C 335	32.588 113.866 85.718 1.00 22.97	С
ATOM		CD1 TYR C 335	31.911 114.398 86.810 1.00 23.06	С
-		CE1 TYR C 335	32.478 115.376 87.594 1.00 23.22	С
		CZ TYR C 335	33.735 115.843 87.302 1.00 23.50	С
ATOM	9611	OH TYR C 335	34.268 116.818 88.104 1.00 24.32	Ο

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ATOM		34.438 115.344 86.213 1.00 23.60	C
ATOM		5 33.858 114.357 85.424 1.00 23.11	C
ATOM		30.753 112.217 82.773 1.00 22.97	С
ATOM		29.795 111.596 83.236 1.00 22.91	0
ATOM		31.304 111.941 81.595 1.00 23.13	N
ATOM			C
ATOM			C
ATOM			Ο
ATOM			С
ATOM			Ο
ATOM			N
ATOM			C
	9634 CB LYS C 337		C
	9637 CG LYS C 337		C
ATOM	· ·		C
ATOM			С
ATOM			N
ATOM			С
ATOM			O
ATOM			N
ATOM			С
ATOM			C
ATOM			С
ATOM			О
ATOM			О
ATOM		35.490 108.156 80.658 1.00 23.45	C
ATOM		36.650 107.852 80.933 1.00 23.52	О
ATOM			N
ATOM	9666 CA ASP C 339	35.602 110.193 82.014 1.00 23.46	С
ATOM			C
ATOM		35.130 112.612 81.294 1.00 23.23	C
ATOM ATOM		36.252 112.652 80.734 1.00 22.17	0
ATOM	9673 OD2 ASP C 339 9674 C ASP C 339	1100 22170	0
ATOM		35.854 109.473 83.350 1.00 23.65	C
	9675 O ASP C 339 9676 N PHE C 340	36.789 109.823 84.083 1.00 23.64	0
	9678 CA PHE C 340	35.010 108.483 83.663 1.00 23.87	N
	9680 CB PHE C 340	35.214 107.611 84.826 1.00 24.06	C
	9683 CG PHE C 340	33.959 106.770 85.115 1.00 24.12	C
	9684 CD1 PHE C 340	32.889 107.498 85.895 1.00 24.96	C
	9686 CE1 PHE C 340	32.208 108.569 85.336 1.00 25.77	C
ATOM	9688 CZ PHE C 340	31.219 109.238 86.043 1.00 26.02	C
ATOM	9690 CE2 PHE C 340	30.895 108.832 87.325 1.00 26.79	С
ATOM	9692 CD2 PHE C 340	31.558 107.754 87.898 1.00 26.79	C
ATOM	9694 C PHE C 340	32.549 107.095 87.184 1.00 25.85	C
	9695 O PHE C 340	36.405 106.676 84.595 1.00 23.95 37.273 106.540, 85.461 1.00 23.70	C
		37.273 106.540 85.461 1.00 23.70 36.443 106.031 83.428 1.00 24.03	0
	9698 CA HIS C 341		N
	2020 ON 1115 C 341	37.529 105.098 83.113 1.00 24.10	С

9700	CB HIS C 341	37.295 104.356 81.795 1.00 23.79	C .
			C
			N
		39.245 101.298 81.982 1.00 23.56	С
		39.828 101.837 80.927 1.00 23.39	N
			С
		38.890 105.781 83.078 1.00 24.20	C
	_	39.891 105.167 83.442 1.00 24.22	0
		38.917 107.050 82.665 1.00 24.50	N
			C
			C
			C
			C
			N
			C
			N
			N
9736			C
			0
			N
		40.357 108.321 86.320 1.00 25.56	C
			C
9746	C ALA C 343		C
			0
			N
9750	CA GLY C 344		C
9753	C GLY C 344		C
			0
			N
			C
			C
9762	CG LEU C 345		С
9764	CD1 LEU C 345		C
9768	CD2 LEU C 345		C
			C
			0
			N
			C
			C
9781	CG GLN C 346		C
			C
		_	O
			N
			C
			0
			N
			C
9795	5 CB VAL C 347	35.492 98.051 82.777 1.00 29.00	С
	9703 9704 9706 9708 9710 9712 9713 9714 9716 9718 9724 9729 9730 9730 9740 9740 9740 9740 9740 9740 9740 9740 9750 9750 9750 9750 9760 9776 9776 9776 9776 9776 9776 9776 9776 9776 9776 9776 9776 9776 9776 9776 9778	9733 NH2 ARG C 342 9736 C ARG C 342 9737 O ARG C 342 9738 N ALA C 343 9740 CA ALA C 343 9742 CB ALA C 343 9746 C ALA C 343 9747 O ALA C 343 9748 N GLY C 344 9750 CA GLY C 344 9753 C GLY C 344 9754 O GLY C 344 9755 N LEU C 345 9757 CA LEU C 345 9759 CB LEU C 345 9762 CG LEU C 345 9762 CG LEU C 345 9764 CD1 LEU C 345 9768 CD2 LEU C 345 9773 O LEU C 345 9774 N GLN C 346 9776 CA GLN C 346 9776 CA GLN C 346 9778 CB GLN C 346 9781 CG GLN C 346 9781 CG GLN C 346 9785 OE1 GLN C 346 9786 NE2 GLN C 346 9789 C GLN C 346 9789 C GLN C 346 9789 C GLN C 346	9703 CG HIS C 341 9704 ND1 HIS C 341 9706 CE1 HIS C 341 9708 NE2 HIS C 341 9710 CD2 HIS C 341 9712 C HIS C 341 9713 O HIS C 341 9714 N ARG C 342 9716 CA ARG C 342 9716 CA ARG C 342 9727 CZ ARG C 342 9730 NH1 ARG C 342 9737 O ARG C 342 9738 N ALA C 343 9740 CA ALA C 343 9747 O ALA C 343 9748 N GLY C 344 9755 C GLY C 344 9755 C A LEU C 345 9757 CA LEU C 345 9758 CB LEU C 345 9759 CB LEU C 345 9768 CD2 LEU C 345 9776 CA GLY C 344 9757 CA LEU C 345 9768 CD2 LEU C 345 9777 C C LEU C 345 9768 CD2 LEU C 345 9777 C G AGLN C 346 9778 CB GLN C 346 9789 C GLN C 346 9799 N VAL C 347 9793 CA VAL C 347 9793 CA VAL C 347 9793 CA VAL C 347

ATOM	9797 CG1 VAL C 347	34.313 98.048 81.802 1.00 29.19	С
ATOM	9801 CG2 VAL C 347	36.670 98.827 82.176 1.00 29.10	С
	9805 C VAL C 347	33.877 97.867 84.727 1.00 28.99	C ·
ATOM	9806 O VAL C 347	32.736 98.129 84.343 1.00 29.22	O
ATOM	9807 N GLU C 348	34.130 96.934 85.651 1.00 28.89	N
ATOM	9809 CA GLU C 348	33.065 96.155 86.308 1.00 28.48	C
ATOM	9811 CB GLU C 348	33.578 94.767 86.710 1.00 28.54	C
ATOM	9814 CG GLU C 348	34.222 93.980 85.571 1.00 28.57	C
	9817 CD GLU C 348	35.728 94.160 85.486 1.00 28.72	C
ATOM	9818 OE1 GLU C 348	36.268 94.124 84.357 1.00 29.57	О
ATOM	9819 OE2 GLU C 348	36.380 94.334 86.539 1.00 28.83	O
ATOM	9820 C GLU C 348	32.522 96.876 87.539 1.00 28.22	C
ATOM	9821 O GLU C 348	31.654 96.355 88.247 1.00 27.96	О
ATOM	9822 N PHE C 349	33.072 98.061 87.798 1.00 27.96	N
ATOM	9824 CA PHE C 349	32.557 98.996 88.794 1.00 27.71	$\mathbf{C}$ .
ATOM	9826 CB PHE C 349	33.742 99.553 89.609 1.00 27.74	С
ATOM	9829 CG PHE C 349	33.367 100.516 90.725 1.00 28.59	С
ATOM	9830 CD1 PHE C 349	32.140 100.457 91.374 1.00 29.06	C
ATOM	9832 CE1 PHE C 349	31.840 101.349 92.399 1.00 29.59	C
ATOM	9834 CZ PHE C 349	32.769 102.301 92.796 1.00 29.26	C
ATOM	9836 CE2 PHE C 349	33.989 102.363 92.172 1.00 28.66	С
ATOM	9838 CD2 PHE C 349	34.288 101.475 91.146 1.00 29.12	C
	9840 C PHE C 349	31.744 100.113 88.096 1.00 27.25	C
ATOM		30.771 100.601 88.659 1.00 27.59	O
ATOM	9842 N ILE C 350	32.122 100.489 86.867 1.00 26.78	N
ATOM	9844 CA ILE C 350	31.445 101.562 86.110 1.00 26.20	C
ATOM	9846 CB ILE C 350	32.420 102.239 85.091 1.00 26.26	С
ATOM	9848 CG1 ILE C 350	33.592 102.924 85.802 1.00 26.42	С
ATOM	9851 CD1 ILE C 350	34.836 103.084 84.904 1.00 26.70	C ·
ATOM	9855 CG2 ILE C 350	31.689 103.269 84.207 1.00 26.08	C
ATOM		30.196 101.088 85.354 1.00 25.72	С
ATOM	9860 O ILE C 350	29.230 101.832 85.247 1.00 25.62	O
ATOM	9861 N ASN C 351	30.219 99.875 84.809 1.00 25.21	N
ATOM	9863 CA ASN C 351	29.082 99.374 84.035 1.00 24.96	С
ATOM	9865 CB ASN C 351	29.422 98.057 83.322 1.00 24.86	C
ATOM	9868 CG ASN C 351	30.401 98.245 82.153 1.00 25.77	С
<b>ATOM</b>	9869 OD1 ASN C 351		O
ATOM	9870 ND2 ASN C 351		N
ATOM	9873 C ASN C 351	27.792 99.233 84.867 1.00 24.70	C
<b>ATOM</b>	9874 O ASN C 351	26.760 99.768 84.466 1.00 24.83	Ο
ATOM	9875 N PRO C 352	27.828 98.551 86.016 1.00 24.16	N
ATOM	9876 CA PRO C 352	26.598 98.339 86.802 1.00 24.18	С
ATOM	9878 CB PRO C 352	27.060 97.425 87.953 1.00 24.24	С
	9881 CG PRO C 352	28.381 96.867 87.501 1.00 24.24	С
	9884 CD PRO C 352	28.999 97.944 86.671 1.00 23.97	С
ATOM	9887 C PRO C 352	25.968 99.622 87.364 1.00 24.01	С
	9888 O PRO C 352	24.755 99.639 87.565 1.00 23.97	О
ATOM	9889 N ILE C 353	26.781 100.653 87.615 1.00 23.70	N

ATOM	9891	CA ILE C 353	26.306 101.938 88.134 1.00 23.36	С
ATOM	9893	CB ILE C 353	27.495 102.793 88.656 1.00 23.41	С
ATOM	9895	CG1 ILE C 353	28.178 102.106 89.842 1.00 23.42	С
ATOM	9898	CD1 ILE C 353	29.420 102.820 90.337 1.00 23.49	C
ATOM	9902	CG2 ILE C 353	27.015 104.190 89.075 1.00 23.20	C
ATOM	9906	C ILE C 353	25.537 102.735 87.079 1.00 23.29	С
ATOM	9907	O ILE C 353	24.577 103.439 87.401 1.00 22.97	O
ATOM	9908	N PHE C 354	25.985 102.660 85.827 1.00 23.02	N
ATOM	9910	CA PHE C 354	25.286 103.334 84.732 1.00 22.96	С
ATOM	9912	CB PHE C 354	26.198 103.508 83.517 1.00 23.12	C
ATOM	9915	CG PHE C 354	26.964 104.811 83.514 1.00 23.93	C
ATOM	9916	CD1 PHE C 354	28.159 104.934 84.208 1.00 24.40	C
ATOM	9918	CE1 PHE C 354	28.874 106.126 84.193 1.00 24.30	C
ATOM	9920	CZ PHE C 354	28.397 107.209 83.491 1.00 24.43	C
ATOM	9922	<b>CE2 PHE C 354</b>	27.207 107.105 82.786 1.00 24.83	С
ATOM	9924	CD2 PHE C 354	26.496 105.909 82.801 1.00 24.84	C
ATOM	9926	C PHE C 354	24.012 102.575 84.350 1.00 22.50	C
ATOM	9927	O PHE C 354	23.036 103.176 83.899 1.00 22.50	Ο
ATOM	9928	N GLU C 355	24.031 101.259 84.533 1.00 22.02	N
ATOM	9930	CA GLU C 355	22.836 100.434 84.373 1.00 21.74	C
ATOM	9932	CB GLU C 355	23.196 98.932 84.395 1.00 21.83	С
ATOM	9935	CG GLU C 355	22.744 98.125 83.179 1.00 22.57	C
ATOM	9938	CD GLU C 355	23.799 97.115 82.705 1.00 23.44	С
ATOM	9939	OE1 GLU C 355	23.969 96.928 81.475 1.00 22.50	О
ATOM	9940	OE2 GLU C 355	24.463 96.502 83.572 1.00 24.23	Ο
ATOM	9941	C GLU C 355	21.859 100.768 85.511 1.00 21.11	C
ATOM	9942	O GLU C 355	20.646 100.851 85.307 1.00 20.86	О
ATOM	9943	N PHE C 356	22.384 100.975 86.711 1.00 20.31	N
ATOM	9945	CA PHE C 356	21.511 101.303 87.837 1.00 20.11	C
ATOM		CB PHE C 356	22.258 101.311 89.169 1.00 19.71	С
ATOM	9950	CG PHE C 356	21.360 101.575 90.347 1.00 20.79	С
ATOM	9951	CD1 PHE C 356	20.447 100.614 90.760 1.00 21.75	C
ATOM	9953	CE1 PHE C 356	19.605 100.844 91.826 1.00 21.97	С
ATOM	9955	CZ PHE C 356	19.654 102.071 92.490 1.00 23.12	C
ATOM	9957	CE2 PHE C 356	20.554 103.049 92.067 1.00 21.68	С
ATOM	9959	CD2 PHE C 356	21.390 102.797 91.004 1.00 20.58	С
ATOM	9961	C PHE C 356	20.895 102.668 87.573 1.00 19.69	C
		O PHE C 356	19.650 102.846 87.643 1.00 19.08	O
		N SER C 357	21.787 103.607 87.227 1.00 19.64	N
		CA SER C 357	21.411 104.972 86.894 1.00 19.63	C
ATOM	9967	CB SER C 357	22.623 105.755 86.374 1.00 19.47	С
		OG SER C 357	23.513 106.106 87.417 1.00 18.07	Ο
		C SER C 357	20.295 105.020 85.862 1.00 19.99	C
	9973		19.307 105.729 86.049 1.00 20.17	Ο
		N ARG C 358	20.430 104.253 84.793 1.00 20.29	N
		CA ARG C 358	19.464 104.344 83.714 1.00 21.21	C
		CB ARG C 358	20.103 103.971 82.360 1.00 21.36	С
ATOM	9981	CG ARG C 358	19.989 102.525 81.901 1.00 23.32	C

ATOM	9984 CD ARG C 358	20.690 102.292 80.555 1.00 24.66	C
	9987 NE ARG C 358	22.088 102.751 80.620 1.00 26.32	N
	9989 CZ ARG C 358	23.159 101.977 80.935 1.00 28.56	С
ATOM		23.022 100.674 81.205 1.00 28.88	N
	9993 NH2 ARG C 358	24.385 102.515 80.950 1.00 29.96	N
	9996 C ARG C 358	18.184 103.566 84.037 1.00 21.24	С
	9997 O ARG C 358	17.101 103.910 83.556 1.00 21.87	O
		18.303 102.525 84.852 1.00 21.25	N
		17.129 101.770 85.276 1.00 21.64	С
	10000 CR ALA C 359	17.522 100.456 85.927 1.00 21.55	Ċ
	10002 CD ALA C 359	16.279 102.622 86.216 1.00 22.35	C
	10000 C ALA C 359	15.056 102.459 86.276 1.00 22.40	Ö
	10007 O ALA C 357 10008 N MET C 360	16.922 103.553 86.923 1.00 22.66	N
		16.197 104.555 87.684 1.00 23.32	C
	10010 CA MET C 360	17.137 105.295 88.638 1.00 23.88	Č
	10012 CB MET C 360	17.731 104.413 89.741 1.00 24.60	Č
		16.721 104.377 91.213 1.00 30.15	S
ATOM	10018 SD MET C 360		Č
		15.846 102.995 90.912 1.00 29.26 15.432 105.560 86.807 1.00 23.56	c
	10023 C MET C 360	14.338 105.997 87.188 1.00 23.48	o
	10024 O MET C 360		N
	10025 N ARG C 361	15.969 105.915 85.638 1.00 23.81	C
		15.280 106.879 84.783 1.00 24.20	C
	10029 CB ARG C 361		C
	10032 CG ARG C 361	16.187 108.860 83.365 1.00 26.92	
-	10035 CD ARG C 361	16.661 109.654 84.627 1.00 30.24	C
	10038 NE ARG C 361	16.053 110.989 84.746 1.00 32.03	N
	10040 CZ ARG C 361		C
		16.430 111.247 87.049 1.00 34.23	N
		15.403 112.908 85.822 1.00 35.68	N
ATOM	10047 C ARG C 361	13.925 106.338 84.330 1.00 23.86	C
		12.911 107.069 84.382 1.00 24.38	O
ATOM	10049 N ARG C 362	13.915 105.071 83.894 1.00 23.50	N
ATOM	10051 CA ARG C 362	12.695 104.382 83.440 1.00 23.22	С
ATOM	10053 CB ARG C 362	12.951 102.874 83.279 1.00 23.37	C
ATOM	10056 CG ARG C 362	13.918 102.464 82.151 1.00 23.80	С
ATOM	10059 CD ARG C 362	14.507 101.050 82.314 1.00 24.20	C
ATOM	10062 NE ARG C 362	15.603 100.809 81.370 1.00 25.42	N
ATOM	10064 CZ ARG C 362	16.711 100.111 81.628 1.00 25.11	С
ATOM	10065 NH1 ARG C 362	16.901 99.536 82.814 1.00 24.28	N
	10068 NH2 ARG C 362	17.636 99.970 80.671 1.00 25.33	N
	10071 C ARG C 362	11.561 104.570 84.441 1.00 22.97	С
	10072 O ARG C 362	10,385 104.646 84.081 1.00 22.22	O
	10073 N LEU C 363	11.948 104.613 85.715 1.00 23.48	N
	10075 CA LEU C 363	11.016 104.763 86.832 1.00 23.40	С
•	10077 CB LEU C 363	11.645 104.253 88.116 1.00 23.65	Ċ
-	10080 CG LEU C 363	11.589 102.738 88.298 1.00 24.41	Č
-	10082 CD1 LEU C 363	12.171 102.414 89.650 1.00 24.85	Č
-	10086 CD2 LEU C 363	10.165 102.205 88.181 1.00 24.58	Č
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	CONCCONCCC
1.008 108.534 86.499 1.00 22.35 6.641 109.217 87.783 1.00 21.76 6.658 109.951 87.864 1.00 21.26 6.455 108.959 88.793 1.00 21.51 1.234 109.519 90.114 1.00 21.03 2.143 108.865 91.144 1.00 20.65 2.368 107.358 91.122 1.00 21.08 3.044 107.004 92.460 1.00 22.02 1.079 106.571 90.916 1.00 20.54	N C C O N C C C
0.641 109.217 87.783 1.00 21.76 0.658 109.951 87.864 1.00 21.26 0.455 108.959 88.793 1.00 21.51 1.234 109.519 90.114 1.00 21.03 2.143 108.865 91.144 1.00 20.65 2.368 107.358 91.122 1.00 21.08 3.044 107.004 92.460 1.00 22.02 1.079 106.571 90.916 1.00 20.54	CCONCCC
.658 109.951 87.864 1.00 21.26 .455 108.959 88.793 1.00 21.51 1.234 109.519 90.114 1.00 21.03 2.143 108.865 91.144 1.00 20.65 2.368 107.358 91.122 1.00 21.08 3.044 107.004 92.460 1.00 22.02 1.079 106.571 90.916 1.00 20.54	C O N C C C
.455 108.959 88.793 1.00 21.51 1.234 109.519 90.114 1.00 21.03 2.143 108.865 91.144 1.00 20.65 2.368 107.358 91.122 1.00 21.08 3.044 107.004 92.460 1.00 22.02 1.079 106.571 90.916 1.00 20.54	O N C C C
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.503 111.016 90.102 1.00 20.73	С
.407 111.484 89.409 1.00 21.32	O
.714 111.757 90.871 1.00 20.00	N
0.991 113.161 91.132 1.00 19.45	C
.697 113.977 91.126 1.00 19.28	C
.683 113.455 92.098 1.00 19.71	C
9.092 113.087 93.215 1.00 21.40	0
7.470 113.348 91.844 1.00 19.87	O
720 113.268 92.476 1.00 19.07	C
003 112.263 93.125 1.00 19.27	O
015 114.488 92.884 1.00 18.72	N
2.764 114.758 94.119 1.00 18.83	C
2.997 116.278 94.260 1.00 19.03	C
	C
4.541 115.992 92.456 1.00 22.82	0
4.127 118.034 92.998 1.00 22.97	0
137 114.198 95.393 1.00 17.53	C
831 113.657 96.236 1.00 17.54	0
.825 114.317 95.499 1.00 16.37	N
0.087 113.797 96.622 1.00 15.67	C
.605 114.125 96.454 1.00 15.18	C
308 112.280 96.767 1.00 15.68	С
513 111.774 97.878 1.00 14.84	Ο
	N
	С
	C
.374 109.828 94.055 1.00 17.12	C
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.577 110.198 93.646 1.00 17.84	С
	1.079 106.571 90.916 1.00 20.54 .503 111.016 90.102 1.00 20.73 .407 111.484 89.409 1.00 21.32 .714 111.757 90.871 1.00 20.00 0.991 113.161 91.132 1.00 19.45 .697 113.977 91.126 1.00 19.28 .683 113.455 92.098 1.00 19.71 9.092 113.087 93.215 1.00 21.40 7.470 113.348 91.844 1.00 19.87 720 113.268 92.476 1.00 19.07 003 112.263 93.125 1.00 19.27 015 114.488 92.884 1.00 18.72 2.764 114.758 94.119 1.00 18.83 2.997 116.278 94.260 1.00 19.03 3.933 116.818 93.184 1.00 20.37 4.541 115.992 92.456 1.00 22.82 4.127 118.034 92.998 1.00 22.97 137 114.198 95.393 1.00 17.53 831 113.657 96.236 1.00 17.54 .825 114.317 95.499 1.00 16.37 0.087 113.797 96.622 1.00 15.67 .605 114.125 96.454 1.00 15.18 308 112.280 96.767 1.00 15.68 .513 111.774 97.878 1.00 14.84 266 111.583 95.628 1.00 15.85 0.353 110.128 95.561 1.00 16.13 .860 109.624 94.217 1.00 16.06 .374 109.828 94.055 1.00 17.12 .877 109.577 92.647 1.00 18.03 5.866 108.884 92.536 1.00 20.82 6.469 110.052 91.656 1.00 18.31 744 109.594 95.836 1.00 16.23 886 108.550 96.445 1.00 16.69 762 110.314 95.404 1.00 16.55 .145 109.957 95.744 1.00 16.91 .126 110.805 94.935 1.00 17.84

ATOM 10175 CD1	TYR C 370	15.126 110.684 92.413 1.00 19.06	C
ATOM 10177 CE1		15.579 110.119 91.207 1.00 19.31	C
ATOM 10179 CZ 7	TYR C 370	16.484 109.067 91.247 1.00 19.58	C
ATOM 10180 OH		16.966 108.484 90.093 1.00 22.52	O,
ATOM 10182 CE2		16.933 108.582 92.454 1.00 20.02	С
ATOM 10184 CD2		16.489 109.153 93.645 1.00 19.34	С
ATOM 10186 C T		14.405 110.209 97.224 1.00 16.75	С
ATOM 10187 O T		15.209 109.536 97.854 1.00 16.88	O
ATOM 10188 N A		13.735 111.213 97.759 1.00 16.99	N
ATOM 10190 CA		13.937 111.635 99.145 1.00 17.27	C
ATOM 10192 CB		13.291 112.993 99.374 1.00 17.08	С
ATOM 10192 C. A		13.335 110.567 100.051 1.00 16.84	С
ATOM 10190 O A		13.988 110.073 100.932 1.00 16.85	0
ATOM 10198 N I		12.102 110.181 99.753 1.00 17.01	N
ATOM 10200 CA		11.404 109.117 100.441 1.00 17.09	С
ATOM 10200 CA ATOM 10202 CB		9.970 108.972 99.929 1.00 17.59	С
ATOM 10202 CB		_	C
ATOM 10207 CD1		7.889 110.186 99.401 1.00 16.74	C
ATOM 10207 CD1		8.559 109.988 101.719 1.00 16.75	C
ATOM 10211 CD2		12.074 107.789 100.327 1.00 17.40	C
ATOM 10215 C I			Ō
ATOM 10210 U I	EU C 373	12.664 107.465 99.176 1.00 17.55	Ň
ATOM 10217 N 1		13.380 106.194 99.021 1.00 17.11	C
ATOM 10219 CA ATOM 10221 CB		13.757 105.902 97.556 1.00 17.61	Č
		12.821 104.978 96.754 1.00 19.97	Č
ATOM 10224 CG		13.294 104.804 95.293 1.00 20.70	C
ATOM 10226 CD1			C
ATOM 10230 CD2			C
ATOM 10234 C I		15.007 105.210 100.453 1.00 15.69	Ö
ATOM 10235 O I			N
ATOM 10236 N I			C
ATOM 10238 CA	ILE C 374	16.471 107.496 100.747 1.00 14.92	C
ATOM 10240 CB	ILE C 374	17.107 108.871 100.509 1.00 14.52	C
		17.863 108.868 99.174 1.00 13.50	
ATOM 10245 CD1		18.178 110.229 98.652 1.00 14.08	C
ATOM 10249 CG2		18.094 109.237 101.625 1.00 15.97	C
ATOM 10253 C I		16.148 107.247 102.242 1.00 15.39	С
ATOM 10254 O I		16.804 106.436 102.899 1.00 14.33	0,
ATOM 10255 N		15.139 107.940 102.759 1.00 15.76	N
ATOM 10257 CA		14.701 107.752 104.144 1.00 16.21	C
ATOM 10259 CB		13.529 108.715 104.488 1.00 16.50	C
ATOM 10263 C		14.301 106.315 104.430 1.00 16.30	C
ATOM 10264 O		14.640 105.778 105.504 1.00 16.83	0
ATOM 10265 N I		13.603 105.675 103.487 1.00 16.26	N
ATOM 10267 CA		13.248 104.260 103.641 1.00 16.17	C
ATOM 10269 CB		12.388 103.765 102.483 1.00 15.65	C
ATOM 10271 CG1		10.962 104.324 102.577 1.00 14.92	C
ATOM 10274 CD1		10.252 104.412 101.217 1.00 13.64	C
ATOM 10278 CG2	2 ILE C 376	12.311 102.230 102.478 1.00 15.37	С

<b>ATOM</b>	10282	C	ILE C 376	14.512 103.389 103.749 1.00 17.06	С
<b>ATOM</b>	10283	Ο	ILE C 376	14.534 102.404 104.506 1.00 17.32	0
<b>ATOM</b>	10284	N	ASN C 377	15.543 103.744 102.976 1.00 17.57	N
<b>ATOM</b>	10286	CA	<b>ASN C 377</b>	16.820 103.013 102.968 1.00 17.73	С
ATOM	10288	CB	<b>ASN C 377</b>	17.752 103.496 101.848 1.00 17.99	C
<b>ATOM</b>	10291	CG	<b>ASN C 377</b>	18.896 102.520 101.578 1.00 19.82	С
<b>ATOM</b>	10292	OD	1 ASN C 377	20.070 102.880 101.638 1.00 21.89	C
<b>ATOM</b>	10293	ND	2 ASN C 377	18.552 101.269 101.319 1.00 21.75	N
ATOM	10296	<b>C</b> .	ASN C 377	17.554 103.162 104.283 1.00 17.65	С
<b>ATOM</b>	10297	0	ASN C 377	18.123 102.204 104.772 1.00 17.41	О
ATOM	10298	N	ILE C 378	17.523 104.362 104.861 1.00 17.48	N
<b>ATOM</b>	10300	CA	ILE C 378	18.224 104.627 106.099 1.00 17.47	C
ATOM	10302	CB	ILE C 378	18.164 106.130 106.434 1.00 17.43	C
ATOM	10304	CG	1 ILE C 378	18.964 106.953 105.415 1.00 18.45	C
ATOM	10307	CD	1 ILE C 378	18.754 108.508 105.545 1.00 18.06	С
ATOM	10311	CG:	2 ILE C 378	18.768 106.411 107.814 1.00 18.61	C
ATOM	10315	C	ILE C 378	17.654 103.753 107.247 1.00 17.23	C
ATOM	10316	0	ILE C 378	18.400 103.188 108.018 1.00 16.66	О
ATOM	10317	N	PHE C 379	16.330 103.626 107.318 1.00 17.55	N
				15.659 102.894 108.394 1.00 17.18	C
				14.332 103.566 108.741 1.00 16.99	C
				14.489 104.973 109.255 1.00 16.94	С
				13.915 106.031 108.612 1.00 16.97	C
					C
			PHE C 379	14.825 107.539 110.174 1.00 15.48	C
				15.408 106.515 110.832 1.00 16.69	C
			2 PHE C 379	15.260 105.233 110.367 1.00 18.66	C
			PHE C 379	15.431 101.445 108.028 1.00 17.81	C
			PHE C 379	14.307 100.966 108.065 1.00 18.46	О
			SER C 380	16.509 100.748 107.678 1.00 17.88	N
			SER C 380	16.485 99.310 107.441 1.00 17.98	C
			SER C 380	17.496 98.909 106.356 1.00 17.76	C
			SER C 380	17.303 99.647 105.163 1.00 16.61	О
			SER C 380	16.903 98.662 108.728 1.00 18.11	C
			SER C 380	17.982 98.947 109.228 1.00 18.24	O
			ALA C 381	16.077 97.768 109.256 1.00 18.87	N
			ALA C 381	16.282 97.263 110.629 1.00 19.14	С
			ALA C 381	15.004 96.671 111.221 1.00 18.10	С
			ALA C 381	17.374 96.227 110.613 1.00 19.86	C
			ALA C 381	17.918 95.904 111.649 1.00 20.58	0
			ASP C 382	17.720 95.740 109.426 1.00 20.78	N
			ASP C 382 ASP C 382	18.578 94.574 109.308 1.00 21.80	C
				18.049 93.631 108.217 1.00 22.59	C
			ASP C 382 ASP C 382	17.712 94.340 106.924 1.00 25.32	C
			ASP C 382 ASP C 382	18.345 95.372 106.572 1.00 28.27	0
			SP C 382	16.800 93.907 106.184 1.00 31.03	0
			ASP C 382	20.063 94.875 109.087 1.00 21.30 20.850 93.961 108.880 1.00 21.67	C
7 1 OIVI I	0303	U F	101 0 302	20.000 108.601 108.660 1.00 21.67	О

ATOM	10370	N ARG C 383	20.464 96.133 109.158 1.00 20.76	N
		CA ARG C 383	21.870 96.458 108.966 1.00 20.40	C
		CB ARG C 383	22.102 97.968 108.964 1.00 20.24	C
		CG ARG C 383	21.280 98.721 107.973 1.00 20.86	C
		CD ARG C 383	21.471 98.305 106.512 1.00 20.81	C
		NE ARG C 383	21.060 99.411 105.651 1.00 23.05	N
		CZ ARG C 383	21.448 99.608 104.392 1.00 23.62	C
		NH1 ARG C 383	22.284 98.767 103.791 1.00 22.88	N
		NH2 ARG C 383	20.988 100.673 103.737 1.00 23.93	N
		C ARG C 383	22.705 95.828 110.072 1.00 20.60	C
		O ARG C 383	22.193 95.559 111.171 1.00 20.49	Ö
		N PRO C 384	23.990 95.591 109.791 1.00 20.64	N
		CA PRO C 384	24.900 95.098 110.820 1.00 20.23	C
			26.252 95.045 110.100 1.00 20.42	Č
		<del>-</del>	25.906 94.926 108.642 1.00 20.49	C
		<b>-</b>	24.675 95.752 108.487 1.00 20.78	C
		CD PRO C 384	24.938 96.050 112.006 1.00 20.18	c
		C PRO C 384	24.774 97.273 111.839 1.00 20.56	o
		O PRO C 384		N
		N ASN C 385	25.073 95.470 113.198 1.00 19.50	C
		CA ASN C 385	25.282 96.212 114.440 1.00 18.82	C
		CB ASN C 385	26.525 97.100 114.315 1.00 18.73	
		CG ASN C 385	27.764 96.298 113.980 1.00 19.31	C
		OD1 ASN C 385	28.111 95.354 114.686 1.00 18.15	0
		ND2 ASN C 385	28.423 96.653 112.887 1.00 20.05	N
		C ASN C 385	24.105 97.015 114.988 1.00 17.94	C
		O ASN C 385	24.272 97.731 115.967 1.00 17.75	0
		N VAL C 386	22.920 96.870 114.404 1.00 17.31	N
		CA VAL C 386		C
ATOM	10426	CB VAL C 386	20.583 97.561 113.834 1.00 16.96	C
		CG1 VAL C 386	19.256 97.893 114.462 1.00 17.21	C
ATOM	10432	CG2 VAL C 386	20.843 98.519 112.699 1.00 16.77	С
ATOM	10436	C VALC 386		С
		O VAL C 386	21.182 95.869 116.411 1.00 16.69	О
ATOM	10438	N GLN C 387	21.143 97.971 117.198 1.00 16.81	N
ATOM	10440	CA GLN C 387	20.861 97.554 118.568 1.00 17.01	С
ATOM	10442	<b>CB GLN C 387</b>	21.595 98.454 119.582 1.00 17.44	С
ATOM	10445	<b>CG GLN C 387</b>	23.103 98.095 119.742 1.00 19.87	С
ATOM	10448	<b>CD GLN C 387</b>	23.773 98.768 120.958 1.00 25.61	С
ATOM	10449	OE1 GLN C 387	23.707 98.247 122.088 1.00 28.07	Ο
ATOM	10450	<b>NE2 GLN C 387</b>	24.430 99.915 120.730 1.00 28.85	N
ATOM	10453	C GLN C 387	19.351 97.492 118.800 1.00 16.32	C
		O GLN C 387	18.875 96.659 119.549 1.00 15.38	O
		N GLU C 388	18.594 98.331 118.095 1.00 16.53	N
-		CA GLU C 388	17.144 98.385 118.264 1.00 16.09	С
•		CB GLU C 388	16.764 99.681 118.965 1.00 16.06	С
-		CG GLU C 388	17.286 99.703 120.404 1.00 18.42	С
•		CD GLU C 388	16.865 100.927 121.208 1.00 18.48	С
-		OE1 GLU C 388	16.985 102.090 120.720 1.00 15.22	O
		= = = = = = = = = = = = = = = = = = = =		-

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ATOM	10467	OE2 GLU C 388	16.450 100.703 122.359 1.00 21.22	0
		C GLU C 388	16.430 98.210 116.930 1.00 15.40	С
		O GLU C 388	15.942 99.173 116.383 1.00 15.04	O
		N PRO C 389	16.403 96.981 116.390 1.00 15.72	N
		CA PRO C 389	15.651 96.688 115.150 1.00 15.71	С
		CB PRO C 389	15.727 95.164 115.032 1.00 15.89	C
		CG PRO C 389	16.318 94.659 116.329 1.00 14.99	C
		CD PRO C 389	17.120 95.788 116.882 1.00 15.27	C
		C PRO C 389	14.197 97.143 115.228 1.00 16.18	С
		O PRO C 389	13.704 97.776 114.307 1.00 15.95	O
		N GLY C 390	13.536 96.853 116.346 1.00 16.92	N
		CA GLY C 390	12.155 97.279 116.556 1.00 16.79	C
		C GLY C 390	11.889 98.750 116.344 1.00 17.11	С
		O GLY C 390	10.893 99.093 115.718 1.00 17.75	O
		N ARG C 391	12.745 99.629 116.878 1.00 17.66	N
ATOM	10493	CA ARG C 391	12.592 101.082 116.655 1.00 18.13	С
ATOM	10495	CB ARG C 391	13.614 101.934 117.413 1.00 18.77	C
ATOM	10498	CG ARG C 391	13.675 101.810 118.857 1.00 24.55	С
ATOM	10501	CD ARG C 391	14.683 102.805 119.477 1.00 29.16	С
		NE ARG C 391	14.076 104.107 119.567 1.00 31.78	N
ATOM	10506	CZ ARG C 391	13.182 104.413 120.470 1.00 34.82	С
<b>ATOM</b>	10507	NH1 ARG C 391	12.835 103.520 121.392 1.00 36.74	N
ATOM	10510	NH2 ARG C 391	12.626 105.609 120.456 1.00 37.16	N
ATOM	10513	C ARG C 391	12.818 101.466 115.210 1.00 16.18	C
ATOM	10514	O ARG C 391	12.147 102.322 114.689 1.00 15.38	O
ATOM	10515	N VAL C 392	13.847 100.894 114.606 1.00 15.70	N
<b>ATOM</b>	10517	CA VAL C 392	14.229 101.269 113.247 1.00 15.66	С
		CB VAL C 392	15.553 100.608 112.817 1.00 15.19	С
		CG1 VAL C 392	15.897 100.980 111.376 1.00 15.63	C
		CG2 VAL C 392	16.687 101.041 113.724 1.00 14.28	C
		C VAL C 392	13.081 100.953 112.282 1.00 15.55	C
		O VAL C 392	12.685 101.791 111.480 1.00 14.85	0
		N GLU C 393	12.511 99.764 112.435 1.00 16.20	N
		CA GLU C 393		C
		CB GLU C 393	11.121 97.859 111.816 1.00 17.76	С
		CG GLU C 393	9.758 97.464 111.291 1.00 21.52	C
		CD GLU C 393	9.695 96.060 110.805 1.00 25.44	C
		OE1 GLU C 393	9.791 95.881 109.555 1.00 28.53	0
		OE2 GLU C 393	9.519 95.164 111.680 1.00 29.10	0
		C GLU C 393	10.142 100.173 111.759 1.00 16.73	C O
-		O GLU C 393	9.493 100.506 110.781 1.00 17.69	
		N ALA C 394	9.775 100.498 112.984 1.00 15.86	N C
		CA ALA C 394	8.653 101.398 113.245 1.00 15.54 8.404 101.526 114.760 1.00 15.28	C
		CB ALA C 394	8.851 102.788 112.623 1.00 15.35	C
		C ALA C 394 O ALA C 394	7.879 103.395 112.117 1.00 14.06	0
-		N LEU C 395	10.096 103.275 112.652 1.00 15.22	N
-		CA LEU C 395	10.452 104.558 112.014 1.00 15.78	C
ATOM	10228	CA LEU C 393	10.432 104.336 112.014 1.00 13.78	C

ATOM	10560	CB LEU C 395	11.852 104.992 112.420 1.00 15.68	C
		CG LEU C 395	11.918 105.480 113.861 1.00 16.97	C
		CD1 LEU C 395	13.361 105.689 114.268 1.00 19.03	C
		CD2 LEU C 395	11.107 106.770 114.058 1.00 18.08	C
ATOM	10573	C LEU C 395	10.355 104.529 110.485 1.00 16.08	C
ATOM	10574	O LEU C 395	10.014 105.516 109.859 1.00 16.06	О
		N GLN C 396	10.642 103.382 109.894 1.00 16.66	N
		CA GLN C 396	10.517 103.229 108.459 1.00 17.47	C
ATOM	10579	CB GLN C 396	11.134 101.895 108.028 1.00 17.68	C
ATOM	10582	CG GLN C 396	11.324 101.768 106.542 1.00 16.72	C
ATOM	10585	CD GLN C 396	11.835 100.405 106.179 1.00 18.42	C
		OE1 GLN C 396	11.147 99.393 106.369 1.00 18.27	Ο
ATOM	10587	<b>NE2 GLN C 396</b>	13.034 100.367 105.647 1.00 17.65	N
ATOM	10590	C GLN C 396	9.072 103.279 107.956 1.00 17.63	С
ATOM	10591	O GLN C 396	8.821 103.809 106.869 1.00 17.64	О
		N GLN C 397	8.149 102.710 108.724 1.00 17.50	N
ATOM	10594	CA GLN C 397	6.740 102.654 108.344 1.00 18.27	C
ATOM	10596	CB GLN C 397	5.859 102.191 109.506 1.00 19.03	C
<b>ATOM</b>	10599	CG GLN C 397	4.431 101.773 109.037 1.00 23.38	C
ATOM	10602	CD GLN C 397	3.449 101.459 110.189 1.00 26.76	C
ATOM	10603	OE1 GLN C 397	2.222 101.632 110.031 1.00 28.67	О
		NE2 GLN C 397	3.983 100.997 111.327 1.00 26.27	N
ATOM	10607	C GLN C 397	6.147 103.936 107.740 1.00 17.26	C
ATOM	10608	O GLN C 397	5.620 103.884 106.635 1.00 17.45	Ο
ATOM	10609	N PRO C 398	6.167 105.066 108.437 1.00 16.37	N
		CA PRO C 398	5.557 106.287 107.881 1.00 16.00	C
		CB PRO C 398	5.840 107.337 108.949 1.00 15.99	C
ATOM	10615	CG PRO C 398	6.961 106.770 109.755 1.00 16.38	C
		CD PRO C 398	6.697 105.304 109.786 1.00 16.31	C
		C PRO C 398	6.135 106.722 106.530 1.00 15.98	C
		O PRO C 398	5.441 107.395 105.774 1.00 16.26	О
ATOM	10623	N TYR C 399	7.381 106.359 106.237 1.00 15.50	N
ATOM	10625	CA TYR C 399	8.010 106.723 104.975 1.00 15.01	C
		CB TYR C 399	9.546 106.768 105.104 1.00 14.45	C
ATOM	10630	CG TYR C 399	10.020 107.922 106.008 1.00 14.13	C
		CD1 TYR C 399	10.418 107.694 107.319 1.00 14.06	C
		CE1 TYR C 399	10.834 108.727 108.141 1.00 15.10	С
		CZ TYR C 399	10.846 110.016 107.658 1.00 12.68	C
		OH TYR C 399	11.243 111.020 108.451 1.00 13.28	0
		CE2 TYR C 399	10.444 110.281 106.386 1.00 14.91	C
		CD2 TYR C 399	10.028 109.218 105.558 1.00 14.31	С
ATOM	10642	C TYR C 399	7.542 105.801 103.869 1.00 15.21	C
	10643		7.317 106.255 102.759 1.00 15.21	0
-		N VALC 400	7.391 104.519 104.175 1.00 15.84	N
		CA VALC 400	6.772 103.571 103.248 1.00 16.94	C
-		CB VALC 400	6.834 102.110 103.743 1.00 16.80	C
		CGI VAL C 400	6.125 101.182 102.760 1.00 16.87	C
ATOM	10654	CG2 VAL C 400	8.278 101.667 103.916 1.00 17.11	C

ATOM 10658 C VAL C 400	5.319 103.962 102.969 1.00 17.15	C
ATOM 10659 O VAL C 400	4.912 104.001 101.819 1.00 16.77	Ο
ATOM 10660 N GLU C 401	4.562 104.267 104.023 1.00 18.06	N
ATOM 10662 CA GLU C 401	3.176 104.751 103.875 1.00 18.84	С
ATOM 10664 CB GLU C 401	2.551 105.092 105.240 1.00 19.09	С
ATOM 10667 CG GLU C 401	1.929 103.886 105.935 1.00 21.89	С
ATOM 10670 CD GLU C 401	1.442 104.153 107.356 1.00 24.70	С
ATOM 10671 OE1 GLU C 401	1.243 103.183 108.115 1.00 27.79	O
ATOM 10672 OE2 GLU C 401	1.260 105.318 107.732 1.00 28.43	0
ATOM 10673 C GLU C 401	3.129 105.968 102.956 1.00 18.12	C
ATOM 10674 O GLU C 401	2.367 106.001 102.007 1.00 17.39	О
ATOM 10675 N ALA C 402	3.984 106.947 103.236 1.00 18.19	N
ATOM 10677 CA ALA C 402	3.995 108.204 102.503 1.00 18.17	C
ATOM 10679 CB ALA C 402	5.011 109.135 103.093 1.00 18.00	С
ATOM 10683 C ALA C 402	4.270 107.995 101.005 1.00 18.61	С
ATOM 10684 O ALA C 402	3.631 108.618 100.154 1.00 18.66	Ο
ATOM 10685 N LEU C 403	5.213 107.114 100.694 1.00 18.75	N
ATOM 10687 CA LEU C 403	5.619 106.879 99.321 1.00 19.05	С
ATOM 10689 CB LEU C 403	6.997 106.192 99.275 1.00 19.15	C
ATOM 10692 CG LEU C 403	7.513 105.797 97.878 1.00 18.67	С
ATOM 10694 CD1 LEU C 403	7.745 107.045 97.046 1.00 18.95	С
ATOM 10698 CD2 LEU C 403	8.780 104.956 97.957 1.00 16.47	С
ATOM 10702 C LEU C 403	4.572 106.054 98.554 1.00 19.21	C
ATOM 10703 O LEU C 403	4.393 106.234 97.342 1.00 18.82	О
ATOM 10704 N LEU C 404	3.910 105.140 99.253 1.00 19.19	N
ATOM 10706 CA LEU C 404	2.799 104.395 98.684 1.00 19.67	C
ATOM 10708 CB LEU C 404	2.269 103.363 99.684 1.00 19.97	C
ATOM 10711 CG LEU C 404	1.005 102.569 99.318 1.00 20.24	С
ATOM 10713 CD1 LEU C 404	1.185 101.863 98.014 1.00 21.39	С
ATOM 10717 CD2 LEU C 404	0.696 101.557 100.381 1.00 20.47	C
ATOM 10721 C LEU C 404	1.700 105.372 98.302 1.00 19.98	С
ATOM 10722 O LEUC 404	1.176 105.328 97.187 1.00 20.57	О
ATOM 10723 N SER C 405	1.372 106.259 99.235 1.00 20.27	N
ATOM 10725 CA SER C 405	0.396 107.334 99.022 1.00 20.15	С
ATOM 10727 CB SER C 405	0.272 108.202 100.288 1.00 20.21	C
ATOM 10730 OG SER C 405	-0.915 107.924 100.983 1.00 20.15	0
ATOM 10732 C SER C 405	0.790 108.248 97.880 1.00 20.03	С
ATOM 10733 O SER C 405	-0.031 108.543 97.020 1.00 20.53	О
ATOM 10734 N TYR C 406	2.044 108.702 97.896 1.00 20.00	N
ATOM 10736 CA TYR C 406	2.552 109.688 96.939 1.00 19.97	С
ATOM 10738 CB TYR C 406	3.997 110.093 97.260 1.00 19.91	С
ATOM 10741 CG TYR C 406	4.514 111.222 96.395 1.00 18.94	C
ATOM 10742 CD1 TYR C 406	4.398 112.542 96.797 1.00 18.21	C
ATOM 10744 CE1 TYR C 406	4.847 113.586 95.972 1.00 18.94	С
ATOM 10746 CZ TYR C 406	5.411 113.290 94.746 1.00 19.59	С
ATOM 10747 OH TYR C 406	5.865 114.295 93.927 1.00 19.88	Ο
ATOM 10749 CE2 TYR C 406	5.526 111.977 94.325 1.00 19.06	C
ATOM 10751 CD2 TYR C 406	5.074 110.963 95.140 1.00 19.40	С

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2.469 109.172 95.510 1.00 20.35 ATOM 10753 C TYR C 406 C ATOM 10754 O TYR C 406 2.047 109.898 94.626 1.00 20.27 0 2.854 107.916 95.308 1.00 21.37 ATOM 10755 N THR C 407 N 2.865 107.287 93.989 1.00 21.91 C ATOM 10757 CA THR C 407 3.704 105.960 93.992 1.00 21.83 ATOM 10759 CB THR C 407  $\mathbf{C}$ 3.301 105.094 95.061 1.00 20.54 ATOM 10761 OG1 THR C 407 0 5.188 106.223 94.250 1.00 22.28 C ATOM 10763 CG2 THR C 407 1.453 106.984 93.492 1.00 23.05 C ATOM 10767 C THR C 407 ATOM 10768 O THR C 407 1.188 107.060 92.300 1.00 22.82 0 0.559 106.637 94.410 1.00 24.46 N ATOM 10769 N ARG C 408 -0.807 106.265 94.065 1.00 25.85 ATOM 10771 CA ARG C 408 C -1.491 105.678 95.298 1.00 26.37 C ATOM 10773 CB ARG C 408  $\mathbf{C}$ -2.916 105.192 95.109 1.00 29.43 ATOM 10776 CG ARG C 408 -3.866 105.573 96.266 1.00 33.67 C ATOM 10779 CD ARG C 408 -4.798 104.490 96.601 1.00 36.66 N ATOM 10782 NE ARG C 408 -4.462 103.356 97.226 1.00 38.90 ATOM 10784 CZ ARG C 408 -3.199 103.126 97.604 1.00 39.24 N ATOM 10785 NH1 ARG C 408 -5.401 102.442 97.467 1.00 39.84 N ATOM 10788 NH2 ARG C 408 -1.557 107.482 93.507 1.00 26.15 C ATOM 10791 C ARG C 408 -2.403 107.358 92.626 1.00 26.69 ATOM 10792 O ARG C 408 0 -1.209 108.659 94.002 1.00 26.64 N ATOM 10793 N ILE C 409 ATOM 10795 CA ILE C 409 -1.754 109.912 93.505 1.00 26.91 C ATOM 10797 CB ILE C 409 -1.638 110.998 94.597 1.00 27.04 C  $\mathbf{C}$ ATOM 10799 CG1 ILE C 409 -2.524 110.619 95.793 1.00 26.61  $\mathbf{C}$ ATOM 10802 CD1 ILE C 409 -2.277 111.419 97.028 1.00 26.26  $\mathbf{C}$ ATOM 10806 CG2 ILE C 409 -2.001 112.382 94.029 1.00 26.68 -1.040 110.368 92.237 1.00 27.54 C ATOM 10810 C ILE C 409 -1.668 110.954 91.354 1.00 28.11 0 ATOM 10811 O ILE C 409 0.259 110.098 92.134 1.00 28.09 N ATOM 10812 N LYS C 410 1.047 110.546 90.980 1.00 28.82 ATOM 10814 CA LYS C 410 C 2.559 110.495 91.278 1.00 28.98 C ATOM 10816 CB LYS C 410  $\mathbf{C}$ ATOM 10819 CG LYS C 410 3.403 111.356 90.321 1.00 30.02 4.840 110.867 90.222 1.00 30.46  $\mathbf{C}$ ATOM 10822 CD LYS C 410 5.799 111.947 89.723 1.00 31.05 C ATOM 10825 CE LYS C 410 ATOM 10828 NZ LYS C 410 7.240 111.551 89.853 1.00 29.84 N ATOM 10832 C LYS C 410 0.712 109.774 89.692 1.00 28.70 C 0.346 110.385 88.709 1.00 29.01 O ATOM 10833 O LYS C 410 0.867 108.449 89.701 1.00 28.92 N ATOM 10834 N ARG C 411 0.430 107.583 88.601 1.00 29.15  $\mathbf{C}$ ATOM 10836 CA ARG C 411 1.606 106.837 87.950 1.00 29.26 C ATOM 10838 CB ARG C 411 2.899 107.622 87.784 1.00 30.52  $\mathbf{C}$ ATOM 10841 CG ARG C 411  $\mathbf{C}$ ATOM 10844 CD ARG C 411 3.182 108.149 86.369 1.00 31.58 3.796 109.475 86.457 1.00 33.05 N ATOM 10847 NE ARG C 411 3.974 110.310 85.441 1.00 33.60  $\mathbf{C}$ ATOM 10849 CZ ARG C 411 ATOM 10850 NH1 ARG C 411 3.616 109.968 84.209 1.00 33.77 N 4.534 111.498 85.663 1.00 34.14 ATOM 10853 NH2 ARG C 411 N -0.590 106.549 89.094 1.00 29.28 ATOM 10856 C ARG C 411 C -0.255 105.380 89.239 1.00 29.32 0 ATOM 10857 O ARG C 411

ATOM 10858 N PRO C 412	-1.824 106.966 89.355 1.00 29.53	N
ATOM 10859 CA PRO C 412	-2.879 106.030 89.763 1.00 29.86	C
ATOM 10861 CB PRO C 412	-4.163 106.873 89.649 1.00 29.93	С
ATOM 10864 CG PRO C 412	-3.753 108.184 89.010 1.00 29.82	С
ATOM 10867 CD PRO C 412	-2.313 108.356 89.323 1.00 29.66	С
ATOM 10870 C PRO C 412	-3.001 104.756 88.908 1.00 30.29	С
ATOM 10871 O PRO C 412	-3.254 103.676 89.450 1.00 30.16	Ο
ATOM 10872 N GLN C 413	-2.825 104.874 87.596 1.00 30.80	N
ATOM 10874 CA GLN C 413	-2.992 103.731 86.706 1.00 31.04	С
ATOM 10876 CB GLN C 413	-3.915 104.115 85.539 1.00 31.05	С
ATOM 10879 CG GLN C 413	-5.426 103.950 85.866 1.00 30.71	С
ATOM 10882 CD GLN C 413	-6.187 105.272 85.930 1.00 30.28	С
ATOM 10883 OE1 GLN C 413	-6.175 105.957 86.959 1.00 29.01	0
ATOM 10884 NE2 GLN C 413	-6.862 105.622 84.834 1.00 29.34	N
ATOM 10887 C GLN C 413	-1.634 103.130 86.260 1.00 31.55	C
ATOM 10888 O GLN C 413	-1.438 102.784 85.091 1.00 31.41	O
ATOM 10889 N ASP C 414	-0.708 103.024 87.225 1.00 31.99	. N
ATOM 10891 CA ASP C 414	0.502 102.201 87.115 1.00 32.28	С
ATOM 10893 CB ASP C 414	1.693 102.973 86.522 1.00 32.58	C
	2.975 102.105 86.405 1.00 33.35	С
ATOM 10897 OD1 ASP C 414	2.879 100.856 86.272 1.00 33.13	О
ATOM 10898 OD2 ASP C 414	4.128 102.585 86.433 1.00 34.30	О
ATOM 10899 C ASP C 414	0.852 101.696 88.509 1.00 32.43	C
ATOM 10900 O ASP C 414	1.710 102.258 89.188 1.00 32.08	Ο
ATOM 10901 N GLN C 415	0.174 100.631 88.924 1.00 32.65	N
ATOM 10903 CA GLN C 415	0.314 100.093 90.274 1.00 32.99	C
ATOM 10905 CB GLN C 415	-0.656 98.927 90.491 1.00 33.51	С
ATOM 10908 CG GLN C 415	-2.143 99.269 90.401 1.00 34.79	C
ATOM 10911 CD GLN C 415	-3.020 98.074 90.764 1.00 36.38	С
ATOM 10912 OE1 GLN C 415	-3.260 97.819 91.951 1.00 38.72	Ο
ATOM 10913 NE2 GLN C 415	-3.474 97.330 89.755 1.00 35.09	N
ATOM 10916 C GLN C 415	1.722 99.590 90.587 1.00 32.61	C
ATOM 10917 O GLN C 415	2.129 99.584 91.743 1.00 32.42	О
ATOM 10918 N LEU C 416	2.454 99.160 89.565 1.00 32.30	N
ATOM 10920 CA LEU C 416	3.753 98.527 89.771 1.00 32.17	C
ATOM 10922 CB LEU C 416	4.034 97.516 88.657 1.00 32.29	С
ATOM 10925 CG LEU C 416	2.979 96.416 88.479 1.00 32.42	С
ATOM 10927 CD1 LEU C 416	3.251 95.656 87.204 1.00 33.06	C
ATOM 10931 CD2 LEU C 416	2.945 95.460 89.664 1.00 32.56	С
ATOM 10935 C LEU C 416	4.919 99.516 89.890 1.00 31.82	C
ATOM 10936 O LEU C 416	6.051 99.101 90.125 1.00 32.18	O
ATOM 10937 N ARG C 417	4.659 100.810 89.747 1.00 31.15	N
ATOM 10939 CA ARG C 417	5.718 101.799 89.922 1.00 30.76	C
ATOM 10941 CB ARG C 417	5.213 103.220 89.686 1.00 30.88	C
ATOM 10944 CG ARG C 417	5.774 103.872 88.419 1.00 32.56	C
ATOM 10947 CD ARG C 417	6.769 104.984 88.659 1.00 33.06	C
ATOM 10950 NE ARG C 417	6.167 106.036 89.465 1.00 33.10	N
ATOM 10952 CZ ARG C 417	6.705 107.226 89.671 1.00 32.51	C

ATOM	10953	NH1 ARG C 417	7.871 107.568 89.131 1.00 32.25	N
ATOM	10956	NH2 ARG C 417	6.069 108.083 90.440 1.00 32.59	N
ATOM	10959	C ARG C 417	6.270 101.708 91.326 1.00 29.89	C
ATOM	10960	O ARG C 417	7.484 101.677 91.523 1.00 29.82	Ο
ATOM	10961	N PHE C 418	5.370 101.677 92.304 1.00 28.71	N
			5.785 101.604 93.696 1.00 27.67	C
			4.577 101.748 94.635 1.00 27.27	С
ATOM	10968	CG PHE C 418	4.925 101.628 96.091 1.00 27.01	С
ATOM	10969	CD1 PHE C 418	5.796 102.527 96.686 1.00 25.81	C
ATOM	10971	CE1 PHE C 418	6.115 102.414 98.026 1.00 25.84	C
ATOM	10973	CZ PHE C 418	5.574 101.394 98.780 1.00 24.52	C
ATOM	10975	CE2 PHE C 418	4.721 100.493 98.194 1.00 25.16	C
ATOM	10977	CD2 PHE C 418	4.397 100.607 96.864 1.00 26.05	C
			6.622 100.325 93.959 1.00 27.10	C
			7.792 100.429 94.329 1.00 26.14	0
ATOM	10981	N PRO C 419	6.060 99.135 93.738 1.00 26.80	N
ATOM	10982	CA PRO C 419	6.844 97.900 93.856 1.00 26.96	C
			5.977 96.874 93.134 1.00 27.01	С
ATOM	10987	CG PRO C 419	4.610 97.353 93.378 1.00 27.08	C
ATOM	10990	CD PRO C 419	4.664 98.843 93.378 1.00 26.62	C
ATOM	10993	C PRO C 419	8.223 97.993 93.211 1.00 26.84	C
			9.203 97.658 93.860 1.00 26.82	О
ATOM	10995	N ARG C 420	8.299 98.496 91.987 1.00 26.73	N
ATOM	10997	CA ARG C 420	9.570 98.571 91.276 1.00 27.04	C
ATOM	10999	CB ARG C 420	9.361 99.034 89.840 1.00 27.39	C
ATOM	11002	CG ARG C 420	8.656 98.054 88.947 1.00 27.46	C
ATOM	11005	CD ARG C 420	8.183 98.684 87.646 1.00 29.39	С
ATOM	11008	NE ARG C 420	7.317 97.784 86.889 1.00 31.22	N
ATOM	11010	CZ ARG C 420	6.565 98.143 85.847 1.00 31.95	С
			6.554 99.402 85.396 1.00 31.78	N
ATOM	11014	NH2 ARG C 420	5.809 97.228 85.249 1.00 31.90	N.
ATOM	11017	C ARG C 420	10.562 99.498 91.959 1.00 26.91	С
ATOM	11018	O ARG C 420	11.759 99.239 91.949 1.00 26.33	O
ATOM	11019	N MET C 421	10.060 100.578 92.549 1.00 27.61	N
ATOM	11021	CA MET C 421	10.885 101.478 93.363 1.00 27.93	C
ATOM	11023	CB MET C 421	10.045 102.620 93.907 1.00 28.32	C
ATOM	11026	CG MET C 421	9.688 103.654 92.883 1.00 30.21	С
		SD MET C 421	8.716 104.966 93.627 1.00 32.58	S
ATOM	11030	CE MET C 421	9.940 105.809 94.482 1.00 33.19	С
ATOM	11034	C MET C 421	11.521 100.734 94.534 1.00 27.79	C
ATOM	11035	O MET C 421	12.722 100.836 94.760 1.00 27.73	O
ATOM	11036	N LEU C 422	10.708 99.989 95.274 1.00 27.78	N
ATOM	11038	CA LEU C 422	11.202 99.217 96.408 1.00 27.79	C
		CB LEU C 422	10.043 98.588 97.169 1.00 27.66	C
		CG LEU C 422	9.063 99.511 97.880 1.00 26.55	C
		CD1 LEU C 422	8.090 98.660 98.651 1.00 26.95	C
		CD2 LEU C 422	9.751 100.480 98.795 1.00 26.39	С
ATOM	11053	C LEU C 422	12.150 98.114 95.956 1.00 28.12	C

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ATOM 11054	O LEU C 422	13.132 97.809 96.633 1.00 28.59	О
ATOM 11055	N MET C 423	11.870 97.534 94.798 1.00 28.33	N
	CA MET C 423	12.715 96.483 94.237 1.00 28.41	С
	CB MET C 423	12.081 95.934 92.979 1.00 28.75	С
	CG MET C 423	10.748 95.268 93.212 1.00 30.50	С
	SD MET C 423		S
ATOM 11066	CE MET C 423	9.884 92.827 92.200 1.00 34.00	С
	C MET C 423	14.131 96.976 93.913 1.00 28.15	C
ATOM 11070		15.063 96.182 93.805 1.00 28.57	O
	N LYS C 424	14.294 98.281 93.741 1.00 27.55	N
	CA LYS C 424	15.600 98.847 93.450 1.00 26.88	С
	CB LYS C 424	15.454 100.193 92.735 1.00 27.25	C
	CG LYS C 424	14.701 100.076 91.386 1.00 27.60	C
ATOM 11079	CD I VS C 424	15.579 99.556 90.226 1.00 27.94	Č
ATOM 11082	CD L13 C 424	14.719 98.805 89.211 1.00 28.39	Č
ATOM 11085	VE LISC 424	15.410 98.585 87.902 1.00 29.25	N
ATOM 11088	NZ L15 C 424	16 426 09 073 04 707 1 00 26 24	c
		16.436 98.973 94.707 1.00 26.24 17.655 99.041 94.625 1.00 26.48	Ö
		15.791 99.003 95.872 1.00 25.14	N
		16.506 98.866 97.129 1.00 24.15	C
ATOM 11096			C
ATOM 11098	CB LEU C 425	15.567 99.077 98.337 1.00 23.90	C
ATOM 11101	CG LEU C 425	14.860 100.426 98.511 1.00 23.74	
ATOM 11103	CD1 LEU C 425	14.053 100.418 99.797 1.00 24.76	C
		15.812 101.618 98.508 1.00 22.52	C
ATOM 11111	C LEU C 425	17.197 97.482 97.189 1.00 23.59	C
		18.274 97.338 97.784 1.00 23.14	O
ATOM 11113		16.573 96.479 96.582 1.00 23.08	N
ATOM 11115	CA VAL C 426	17.171 95.149 96.491 1.00 23.43	C
ATOM 11117	CB VAL C 426	16.246 94.123 95.795 1.00 22.81	C
ATOM 11119	CG1 VAL C 426	16.890 92.781 95.767 1.00 22.20	С
ATOM 11123	<b>CG2 VAL C 426</b>	14.924 94.020 96.482 1.00 22.82	C
ATOM 11127	C VAL C 426	18.462 95.224 95.683 1.00 24.42	C
ATOM 11128	O VAL C 426	19.526 94.762 96.105 1.00 24.43	О
ATOM 11129	N SER C 427	18.359 95.812 94.502 1.00 25.52	N
	CA SER C 427	19.505 95.924 93.622 1.00 26.19	C
ATOM 11133	CB SER C 427	19.065 96.482 92.262 1.00 26.30	С
	OG SER C 427	18.360 95.477 91.533 1.00 26.75	Ο
	C SER C 427	20.618 96.763 94.264 1.00 26.49	C
ATOM 11139		21.786 96.499 94.041 1.00 26.75	О
	N LEU C 428	20.245 97.742 95.084 1.00 26.85	N
	CA LEU C 428	21.201 98.598 95.801 1.00 27.26	С
	CB LEU C 428	20.470 99.730 96.531 1.00 27.07	С
	CG LEU C 428	20.240 101.034 95.800 1.00 27.26	C
	CD1 LEU C 428	19.184 101.845 96.516 1.00 27.13	C
-	CD2 LEU C 428	21.552 101.814 95.667 1.00 27.93	Č
•	C LEU C 428	22.017 97.855 96.854 1.00 27.70	С
ATOM 11158		23.140 98.254 97.162 1.00 27.62	ŏ
ATOM 11159		21.425 96.826 97.457 1.00 28.50	N
WIOM III33	14 ANO C 727	21,72J JU.UZU JI.TJI 1.00 20.JU	• •

ATOM 11161 CA ARG C 429	22.133 96.012 98.453 1.00 29.02	С
ATOM 11163 CB ARG C 429		C
ATOM 11166 CG ARG C 429		С
ATOM 11169 CD ARG C 429		С
ATOM 11172 NE ARG C 429		N
ATOM 11174 CZ ARG C 429		С
ATOM 11175 NH1 ARG C 42		N
ATOM 11178 NH2 ARG C 42		N
ATOM 11181 C ARG C 429	23.287 95.272 97.821 1.00 29.62	С
ATOM 11182 O ARG C 429		0
ATOM 11183 N THR C 430		N
ATOM 11185 CA THR C 430		C
ATOM 11187 CB THR C 430		Ċ
ATOM 11189 OG1 THR C 430		Ö
ATOM 11191 CG2 THR C 430		Č
ATOM 11191 CG2 THR C 430		C
ATOM 11195 C THR C 430		Ö
ATOM 11190 O TIRC 430		N
ATOM 11197 N LEG C 431 ATOM 11199 CA LEU C 431		C
ATOM 11199 CA LEO C 431 ATOM 11201 CB LEU C 431		Č
ATOM 11201 CB LEU C 431 ATOM 11204 CG LEU C 431		Č
ATOM 11204 CO LEU C 431 ATOM 11206 CD1 LEU C 431		C
		Č
ATOM 11210 CD2 LEU C 431	26.536 97.643 95.365 1.00 35.06	c
ATOM 11214 C LEU C 431	27.692 97.982 95.111 1.00 35.38	0
ATOM 11215 O LEU C 431		N
ATOM 11216 N SER C 432	25.988 97.769 96.568 1.00 35.73	
ATOM 11218 CA SER C 432		C C
ATOM 11220 CB SER C 432		
ATOM 11223 OG SER C 432		0
ATOM 11225 C SER C 432	27.868 97.327 98.071 1.00 36.97	C
ATOM 11226 O SER C 432	28.969 97.770 98.394 1.00 37.30	0
ATOM 11227 N SER C 433		N
ATOM 11229 CA SER C 433		C
ATOM 11231 CB SER C 433		C
ATOM 11234 OG SER C 433		0
ATOM 11236 C SER C 433	29.790 94.991 97.291 1.00 38.16	C
ATOM 11237 O SER C 433	30.820 94.381 97.553 1.00 38.14	0
ATOM 11238 N VAL C 434		N
ATOM 11240 CA VAL C 434		C
ATOM 11242 CB VAL C 434		C
ATOM 11244 CG1 VAL C 43		C
ATOM 11248 CG2 VAL C 43		C
ATOM 11252 C VAL C 434	31.725 96.891 95.561 1.00 39.80	C
ATOM 11253 O VAL C 434	32.823 96.916 95.006 1.00 39.88	Ο
ATOM 11254 N HIS C 435	31.382 97.751 96.525 1.00 40.41	N
ATOM 11256 CA HIS C 435	32.263 98.832 96.992 1.00 40.75	C
ATOM 11258 CB HIS C 435	31.502 99.758 97.954 1.00 41.04	C
ATOM 11261 CG HIS C 435	32.197 101.061 98.230 1.00 41.83	C

ATOM 11262 ND1 HIS C 435	32.204 101.650 99.477 1.00 43.00	N
ATOM 11264 CE1 HIS C 435	32.880 102.784 99.426 1.00 42.90	С
ATOM 11266 NE2 HIS C 435	33.310 102.954 98.189 1.00 42.88	N
ATOM 11268 CD2 HIS C 435	32.895 101.892 97.420 1.00 42.60	С
ATOM 11270 C HIS C 435	33.530 98.341 97.683 1.00 40.75	C
ATOM 11271 O HIS C 435	34.607 98.910 97.479 1.00 40.64	0
ATOM 11272 N SER C 436	33.394 97.313 98.519 1.00 40.83	N
ATOM 11274 CA SER C 436	34.549 96.701 99.182 1.00 40.81	C
ATOM 11276 CB SER C 436	34.139 95.418 99.918 1.00 40.91	C
ATOM 11279 OG SER C 436	34.193 94.289 99.059 1.00 40.56	Ο
ATOM 11281 C SER C 436	35.655 96.390 98.176 1.00 40.74	C
ATOM 11282 O SER C 436		Ο
ATOM 11283 N GLU C 437	35.268 95.763 97.066 1.00 40.74	N
ATOM 11285 CA GLU C 437	36.197 95.305 96.030 1.00 40.71	С
ATOM 11287 CB GLU C 437	35.425 94.739 94.828 1.00 40.67	C
	34.469 93.593 95.137 1.00 40.23	C
ATOM 11293 CD GLU C 437	34.106 92.800 93.896 1.00 39.60	C
ATOM 11294 OE1 GLU C 437	33.001 93.005 93.346 1.00 38.73	O
	34.936 91.976 93.465 1.00 38.66	О
ATOM 11296 C GLU C 437	37.138 96.401 95.522 1.00 40.81	C
ATOM 11297 O GLU C 437	38.340 96.162 95.354 1.00 40.76	Ο
ATOM 11298 N GLN C 438	36.585 97.589 95.268 1.00 40.83	N
	37.337 98.683 94.638 1.00 40.82	С
ATOM 11302 CB GLN C 438	36.410 99.883 94.373 1.00 40.70	C
	37.068 101.099 93.691 1.00 40.71	. <b>C</b>
	38.002 100.735 92.534 1.00 40.27	C
	37.560 100.554 91.396 1.00 39.98	O
ATOM 11310 NE2 GLN C 438	39.293 100.640 92.827 1.00 39.83	N
ATOM 11313 C GLN C 438	38.566 99.108 95.459 1.00 40.82	С
ATOM 11314 O GLN C 438	39.710 98.822 95.082 1.00 40.52	О
ATOM 11315 N LEU D 220	-8.763 88.448 91.008 1.00 28.95	N
ATOM 11317 CA LEU D 220	-7.657 87.934 90.143 1.00 29.15	C
ATOM 11319 CB LEU D 220		С
ATOM 11322 CG LEU D 220		C
ATOM 11324 CD1 LEU D 220	-4.849 86.119 92.161 1.00 29.41	C
ATOM 11328 CD2 LEU D 220	-4.615 87.140 89.884 1.00 30.06	С
ATOM 11332 C LEU D 220	-8.182 87.431 88.804 1.00 29.19	С
ATOM 11333 O LEU D 220	-9.391 87.338 88.604 1.00 29.21	О
ATOM 11336 N THR D 221	-7.256 87.099 87.902 1.00 29.27	N
ATOM 11338 CA THR D 221	-7.575 86.615 86.554 1.00 29.28	С
ATOM 11340 CB THR D 221	-6.913 87.534 85.479 1.00 29.32	$\mathbf{C}$
ATOM 11342 OG1 THR D 221	-5.692 88.106 85.984 1.00 28.79	Ο
ATOM 11344 CG2 THR D 221	-7.801 88.749 85.171 1.00 29.41	C
ATOM 11348 C THR D 221	-7.143 85.150 86.365 1.00 29.28	C
ATOM 11349 O THR D 221	-6.549 84.553 87.258 1.00 29.18	Ο
ATOM 11350 N ALA D 222	-7.456 84.577 85.203 1.00 29.31	N
ATOM 11352 CA ALA D 222	-7.181 83.159 84.924 1.00 29.35	С
ATOM 11354 CB ALA D 222	-7.804 82.757 83.551 1.00 29.22	C

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ATOM 11358 C ALA D 222	-5.656 82.809 84.958 1.00 29.44	С
ATOM 11359 O ALA D 222	-5.157 81.752 85.705 1.00 29.16	O
ATOM 11360 N ALA D 223	-4.904 83.701 84.215 1.00 29.57	N
ATOM 11362 CA ALA D 223	-3.496 83.431 83.921 1.00 29.62	С
ATOM 11364 CB ALA D 223	-2.932 84.505 82.983 1.00 29.57	С
ATOM 11368 C ALA D 223	-2.641 83.330 85.176 1.00 29.86	С
ATOM 11368 C ALA D 223	-1.436 83.076 85.086 1.00 30.12	Ö
	-3.268 83.533 86.336 1.00 29.94	N
ATOM 11370 N GLN D 224		C
	-2.600 83.477 87.627 1.00 29.72	C
ATOM 11374 CB GLN D 224	-2.680 84.855 88.269 1.00 29.66	
ATOM 11377 CG GLN D 224		C
ATOM 11380 CD GLN D 224	-2.541 87.109 87.102 1.00 29.38	C
ATOM 11381 OE1 GLN D 224	-3.157 87.082 86.012 1.00 29.53	О
ATOM 11382 NE2 GLN D 224	-2.494 88.193 87.890 1.00 27.96	N
ATOM 11385 C GLN D 224	-3.196 82.396 88.546 1.00 29.88	C
ATOM 11386 O GLN D 224	-2.456 81.694 89.234 1.00 29.66	O
ATOM 11387 N GLU D 225		N
ATOM 11389 CA GLUD 225	-5.187 81.167 89.275 1.00 30.33	С
ATOM 11391 CB GLU D 225		С
ATOM 11391 CB GEU D 225		С
ATOM 11394 CO GLO D 225 ATOM 11397 CD GLU D 225		C
ATOM 11397 CD GLUD 225	-8.979 82.129 87.758 1.00 29.85	Ō
		Ö
ATOM 11399 OE2 GLU D 225	-4.571 79.807 88.932 1.00 30.57	c
ATOM 11400 C GLU D 225		
ATOM 11401 O GLU D 225		0
ATOM 11402 N LEU D 226	-4.276 79.602 87.650 1.00 30.89	N ·
	-3.532 78.429 87.191 1.00 31.09	C
ATOM 11406 CB LEU D 226		C
ATOM 11409 CG LEU D 226	-2.287 77.542 85.052 1.00 31.34	C
ATOM 11411 CD1 LEU D 226	-2.850 76.125 85.020 1.00 31.59	C
ATOM 11415 CD2 LEU D 226		С
ATOM 11419 C LEU D 226		C
ATOM 11420 O LEU D 226		O
ATOM 11421 N MET D 227		N
ATOM 11423 CA MET D 227		С
ATOM 11425 CR MET D 227		C
ATOM 11423 CB MET D 227 ATOM 11428 CG MET D 227		Č
ATOM 11428 CG MET D 227 ATOM 11431 SD MET D 227	1.984 83.226 88.025 1.00 33.24	S
•		C
ATOM 11432 CE MET D 227		c
ATOM 11436 C MET D 227	0.098 79.497 89.844 1.00 31.85	
ATOM 11437 O MET D 227	1.213 79.295 90.315 1.00 31.82	0
ATOM 11438 N ILE D 228	-0.974 79.686 90.610 1.00 31.96	N
ATOM 11440 CA ILE D 228	-0.854 79.727 92.071 1.00 32.04	C
ATOM 11442 CB ILE D 228	-1.987 80.566 92.719 1.00 31.92	С
ATOM 11444 CG1 ILE D 228	-1.576 82.037 92.779 1.00 31.37	С
ATOM 11447 CD1 ILE D 228	-2.743 82.991 92.849 1.00 31.33	C
ATOM 11451 CG2 ILE D 228	-2.328 80.067 94.127 1.00 31.73	С
ATOM 11455 C ILE D 228	-0.827 78.305 92.614 1.00 32.37	C

ATOM 11456 O ILE D 228	-0.010 77.988 93.473 1.00 32.44	O
	-1.714 77.453 92.103 1.00 32.56	N
	-1.733 76.043 92.487 1.00 32.78	Ĉ
ATOM 11461 CB GLN D 229		Č
ATOM 11464 CG GLN D 229		Č
ATOM 11467 CD GLN D 229		Č
ATOM 11468 OE1 GLN D 229		O
ATOM 11469 NE2 GLN D 229		N
ATOM 11472 C GLN D 229	-0.440 75.350 91.982 1.00 33.05	C
ATOM 11473 O GLN D 229	0.135 74.327 92.656 1.00 33.15	Ō
ATOM 11474 N GLN D 230	0.009 75.921 90.794 1.00 33.39	N
ATOM 11476 CA GLN D 230	1.166 75.417 90.043 1.00 33.55	С
ATOM 11478 CB GLN D 230	1.445 76.289 88.805 1.00 33.67	С
ATOM 11481 CG GLN D 230	1.826 75.540 87.551 1.00 33.91	C
ATOM 11484 CD GLN D 230	1.364 76.276 86.300 1.00 34.51	С
ATOM 11485 OE1 GLN D 230	1.819 77.391 86.028 1.00 34.49	0
	0.447 75.665 85.549 1.00 34.29	N
	2.374 75.467 90.930 1.00 33.43	C
ATOM 11490 O GLN D 230	3.046 74.460 91.141 1.00 33.59	0
ATOM 11491 N LEU D 231	2.641 76.661 91.446 1.00 33.40	N
ATOM 11493 CA LEU D 231	3.781 76.875 92.309 1.00 33.21	С
ATOM 11495 CB LEU D 231		C
ATOM 11498 CG LEU D 231	4.273 79.265 91.346 1.00 32.99	С
ATOM 11500 CD1 LEU D 231	4.425 80.740 91.736 1.00 32.52	С
ATOM 11504 CD2 LEU D 231	5.499 78.784 90.569 1.00 32.74	С
ATOM 11508 C LEU D 231	3.570 76.087 93.601 1.00 33.15	C
ATOM 11509 O LEU D 231	4.533 75.557 94.139 1.00 33.50	Ο
ATOM 11510 N VAL D 232	2.320 75.969 94.067 1.00 32.97	N
ATOM 11512 CA VAL D 232	2.039 75.248 95.312 1.00 33.17	C
ATOM 11514 CB VAL D 232		С
	0.318 74.585 97.064 1.00 32.90	С
	0.338 76.935 96.158 1.00 33.46	С
ATOM 11524 C VAL D 232	2.312 73.759 95.151 1.00 33.28	C
	3.141 73.202 95.853 1.00 33.14	O
ATOM 11526 N ALA D 233	1.614 73.126 94.212 1.00 34.04	N
ATOM 11528 CA ALA D 233	1.718 71.673 93.992 1.00 34.23	C
ATOM 11530 CB ALA D 233	0.815 71.259 92.862 1.00 34.35	С
ATOM 11534 C ALA D 233	3.154 71.166 93.734 1.00 34.53	C
ATOM 11535 O ALA D 233	3.554 70.076 94.230 1.00 34.76	0
ATOM 11536 N ALA D 234	3.918 71.973 92.977 1.00 34.74	N
ATOM 11538 CA ALA D 234	5.344 71.719 92.709 1.00 35.05	С
ATOM 11540 CB ALA D 234	5.809 72.619 91.577 1.00 35.03	С
ATOM 11544 C ALA D 234	6.262 71.908 93.946 1.00 35.58	C
ATOM 11545 O ALA D 234	7.262 71.194 94.097 1.00 35.16	O
ATOM 11546 N GLN D 235	5.930 72.871 94.806 1.00 36.15	N
ATOM 11548 CA GLN D 235	6.654 73.071 96.071 1.00 36.99	С
ATOM 11550 CB GLN D 235	6.310 74.438 96.707 1.00 36.87	C
ATOM 11553 CG GLN D 235	6.970 74.686 98.075 1.00 37.19	C

ATOM 115	556 CD GLN D 235	7.619 76.055 98.190 1.00 37.14	C
ATOM 115		6.965 77.073 97.965 1.00 37.04	Ο
ATOM 115	558 NE2 GLN D 235	8.903 76.083 98.550 1.00 37.27	N
ATOM 115	661 C GLN D 235	6.390 71.925 97.062 1.00 37.60	С
ATOM 115	662 O GLN D 235	7.248 71.619 97.899 1.00 37.51	Ο
	663 N LEU D 236	5.222 71.282 96.949 1.00 38.43	N
		4.860 70.192 97.864 1.00 39.26	C
	667 CB LEU D 236		С
ATOM 115	570 CG LEU D 236	2.567 71.306 98.443 1.00 39.79	С
		1.064 71.102 98.223 1.00 39.92	С
		2.871 71.655 99.893 1.00 39.80	C
		5.452 68.850 97.430 1.00 39.81	С
	581 O LEU D 236		0
ATOM 115	582 N GLND 237	5.726 68.711 96.131 1.00 40.68	N
		6.315 67.489 95.579 1.00 41.25	С
	586 CB GLN D 237	5.821 67.226 94.145 1.00 41.13	C
ATOM 115	580 CG GIND 237	6.585 67.935 93.017 1.00 40.75	Ċ
ATOM 115	502 CD GIND 237	5.844 67.883 91.677 1.00 40.51	Č
ATOM 115	503 OFI GIND 237	6.027 68.757 90.814 1.00 39.72	Ö
		5.012 66.857 91.504 1.00 40.17	N
ATOM 11	507 C GIND 237	7.841 67.546 95.654 1.00 42.10	c
		8.510 66.563 95.380 1.00 42.26	Ö
	599 N CYS D 238		N
		9.770 68.823 96.432 1.00 43.87	C
	501 CA CYS D 238	10.309 70.236 96.159 1.00 43.91	C
	503 CB CYS D 238		S
		10.457 70.656 94.396 1.00 45.75 9.826 68.500 97.928 1.00 44.20	c
	607 C CYS D 238		0
	508 O CYS D 238		N
	609 N ASN D 239	8.806 68.945 98.654 1.00 44.70	C
		8.702 68.694 100.086 1.00 45.10	
	613 CB ASN D 239		C C
		7.578 69.744 102.095 1.00 45.80	
		7.843 68.902 102.957 1.00 47.36	0
	618 ND2 ASN D 239	7.398 71.032 102.377 1.00 45.05	N
	621 C ASN D 239	8.682 67.208 100.414 1.00 45.50	C
	622 O ASN D 239	9.311 66.770 101.377 1.00 45.49	0
	623 N LYS D 240	7.960 66.444 99.594 1.00 46.10	N
	625 CA LYS D 240	7.731 65.027 99.833 1.00 46.33	C
	627 CB LYS D 240	6.397 64.592 99.208 1.00 46.56	C
	630 CG LYS D 240	5.141 65.058 99.956 1.00 46.25	C
	633 CD LYS D 240	3.856 64.551 99.264 1.00 45.65	C
	636 CE LYS D 240	3.156 63.437 100.044 1.00 45.11	С
	639 NZ LYS D 240	1.688 63.399 99.770 1.00 44.72	N
	643 C LYS D 240	8.871 64.208 99.233 1.00 46.68	C
	644 O LYS D 240	9.504 63.410 99.925 1.00 46.55	0
	645 N ARG D 241	9.114 64.416 97.936 1.00 47.01	N
	647 CA ARG D 241	10.142 63.696 97.173 1.00 47.21	C
ATOM 11	649 CB ARG D 241	10.492 64.483 95.897 1.00 47.16	С

ATOM 11652	CG ARG D 241	11.627 63.918 95.045 1.00 46.82	С
	CD ARG D 241		С
	NE ARG D 241		N
	CZ ARG D 241		С
		11.483 64.181 90.689 1.00 45.44	N
		13.089 62.543 90.720 1.00 45.82	N
	C ARG D 241	11.397 63.436 98.007 1.00 47.55	С
_	O ARG D 241		0
	N SER D 242		N
		12.994 64.360 99.614 1.00 48.11	C
		14.130 65.283 99.158 1.00 48.20	C
		14.748 64.781 97.974 1.00 47.67	Ö
		12.537 64.649 101.054 1.00 48.36	Č
		12.852 65.690 101.633 1.00 48.19	Ö
		11.771 63.697 101.595 1.00 48.74	Ň
		11.203 63.734 102.957 1.00 48.90	C
	CB PHE D 243		Č
		9.049 64.568 104.079 1.00 49.90	Č
		9.309 65.895 104.404 1.00 50.91	C
		8.712 66.489 105.519 1.00 51.28	č
	CZ PHE D 243		Č
		7.556 64.428 105.985 1.00 51.08	C
		8.159 63.846 104.873 1.00 50.59	Č
	C PHE D 243	11.505 62.425 103.726 1.00 48.63	C
	O PHE D 243	11.394 62.376 104.952 1.00 48.58	ŏ
	N SER D 244		N
		12.382 60.144 103.592 1.00 48.06	C
		11.270 59.310 104.218 1.00 48.10	č
		10.746 58.391 103.277 1.00 47.55	Ö
		13.092 59.317 102.533 1.00 47.93	c
		14.311 59.167 102.573 1.00 47.82	ŏ
		17.681 58.291 106.502 1.00 23.61	N
ATOM 11711	CA IVED 240	19.122 58.064 106.472 1.00 23.99	C
	CB LYS D 248		Č
	CG LYS D 248	19.137 57.358 103.961 1.00 24.25	Č
		19.346 56.148 103.041 1.00 24.50	Č
ATOM 11721 ATOM 11724	CD LYS D 248	18.163 55.183 103.058 1.00 24.46	C
		18.102 54.398 101.778 1.00 25.51	N
ATOM 11727		19.917 59.357 106.268 1.00 23.95	C
ATOM 11731		20.826 59.416 105.435 1.00 23.68	Ö
ATOM 11732		19,535 60.397 107.025 1.00 24.26	N
ATOM 11733		20.399 61.558 107.303 1.00 24.20	. C
_	CA VAL D 249 CB VAL D 249	19.578 62.852 107.446 1.00 24.61	C
		20.201 63.839 108.484 1.00 25.06	C
	CG1 VAL D 249	19.440 63.533 106.095 1.00 24.50	C
= ' '	CG2 VAL D 249	21.208 61.299 108.596 1.00 24.25	C
ATOM 11747		20.827 60.454 109.439 1.00 25.68	O
ATOM 11748		22.350 61.969 108.718 1.00 23.74	N
ATOM 11749	N 1 HK D 230	22.330 01.909 100./10 1.00 23./4	14

ATOM 11751	CA THR D 250	23.272 61.701 109.820 1.00 23.91	С
	3 CB THR D 250	24.543 62.578 109.695 1.00 23.77	С
	OG1 THR D 250	25.365 62.086 108.617 1.00 26.19	O
	CG2 THR D 250	25.424 62.428 110.942 1.00 24.26	C
	C THR D 250	22.520 62.005 111.099 1.00 23.00	C
ATOM 11762		22.155 63.151 111.273 1.00 23.62	Ö
	8 N PROD 251	22.290 61.031 111.999 1.00 22.63	Ň
	CA PRO D 251	21.419 61.299 113.152 1.00 22.29	C
	5 CB PRO D 251	21.455 59.981 113.949 1.00 22.27	Č
	G PRO D 251	21.943 58.958 113.006 1.00 21.63	Č
	2 CD PRO D 251	22.839 59.655 112.042 1.00 21.97	Č
	5 C PROD 251	21.941 62.446 114.002 1.00 22.45	C
	6 O PROD 251	23.142 62.692 114.044 1.00 22.32	Ö
	7 N TRP D 252	21.022 63.154 114.645 1.00 22.89	N
	9 CA TRP D 252	21.355 64.180 115.621 1.00 23.20	C
	1 CB TRP D 252	20.140 65.080 115.841 1.00 23.25	Č
	4 CG TRP D 252	20.347 66.211 116.785 1.00 22.82	Č
	5 CD1 TRP D 252	19.884 66.301 118.071 1.00 23.00	C
	7 NEI TRP D 252	20.249 67.508 118.619 1.00 22.54	N
	9 CE2 TRP D 252	20.961 68.223 117.693 1.00 20.94	C
	O CD2 TRP D 252	21.041 67.437 116.525 1.00 21.09	C
	1 CE3 TRP D 252	21.712 67.957 115.418 1.00 19.19	C
	3 CZ3 TRP D 252	22.281 69.207 115.510 1.00 19.44	C
	5 CH2 TRP D 252	22.194 69.963 116.688 1.00 19.35	С
	7 CZ2 TRP D 252	21.545 69.484 117.790 1.00 20.08	С
	9 C TRP D 252	21.736 63.472 116.928 1.00 23.76	C
	0 O TRP D 252	20.969 62.645 117.429 1.00 23.42	O
	1 N PRO D 253	22.905 63.792 117.483 1.00 24.27	N
	2 CA PRO D 253	23.396 63.095 118.684 1.00 24.96	C
	4 CB PRO D 253	24.851 63.570 118.782 1.00 25.11	C
	7 CG PRO D 253	24.834 64.960 118.129 1.00 24.28	C
	0 CD PRO D 253	23.846 64.833 117.020 1.00 23.79	C
	3 C PRO D 253	22.630 63.460 119.965 1.00 25.47	С
	4 O PRO D 253	22.438 64.633 120.217 1.00 25.12	O
	5 N LEU D 254	22.229 62.467 120.758 1.00 26.64	N
	7 CA LEU D 254	21.485 62.709 122.000 1.00 27.24	С
	9 CB LEU D 254	19,976 62.544 121.766 1.00 27.66	С
	2 CG LEU D 254	19.017 63.271 122.725 1.00 28.68	C
	4 CD1 LEU D 254	17.671 63.554 122.025 1.00 29.38	C
	8 CD2 LEU D 254	18.808 62.484 124.047 1.00 28.27	C
	2 C LEU D 254	21.955 61.747 123.077 1.00 27.16	С
	3 O LEU D 254	23.095 61.829 123.524 1.00 27.35	Ο
	4 N ALA D 263	30.857 65.517 119.743 1.00 15.82	N
-	6 CA ALA D 263	29.511 66.081 119.841 1.00 15.12	С
•	8 CB ALA D 263	29.334 66.786 121.199 1.00 15.15	С
	2 C ALA D 263	29.243 67.060 118.699 1.00 15.39	С
	3 O ALA D 263	28.303 66.893 117.915 1.00 15.04	Ο
	4 N ARG D 264	30.098 68.077 118.619 1.00 15.54	N

ATOM 11846 CA ARG D 264		С
ATOM 11848 CB ARG D 264	30.954 70.302 118.100 1.00 15.89	C
ATOM 11851 CG ARG D 264	30.868 71.599 117.300 1.00 17.92	C
ATOM 11854 CD ARG D 264	32.120 72.463 117.405 1.00 21.06	C
ATOM 11857 NE ARG D 264	32.058 73.391 118.544 1.00 23.59	N
ATOM 11859 CZ ARG D 264	33.010 73.564 119.469 1.00 24.08	С
ATOM 11860 NH1 ARG D 264	34.143 72.872 119.436 1.00 24.73	N
ATOM 11863 NH2 ARG D 264	32.822 74.448 120.445 1.00 24.83	N
ATOM 11866 C ARG D 264	29.960 68.951 116.281 1.00 15.32	С
ATOM 11867 O ARG D 264	29.230 69.545 115.484 1.00 16.01	O
ATOM 11868 N GLN D 265		N
ATOM 11870 CA GLN D 265	31.051 67.768 114.501 1.00 14.45	С
ATOM 11872 CB GLN D 265	32.249 66.810 114.335 1.00 14.27	C
ATOM 11875 CG GLN D 265	32.745 66.608 112.924 1.00 15.64	С
ATOM 11878 CD GLN D 265	32.846 67.907 112.170 1.00 17.15	C
ATOM 11879 OE1 GLN D 265	33.325 68.907 112.706 1.00 20.03	0
ATOM 11880 NE2 GLN D 265	32.355 67.925 110.934 1.00 18.99	N
ATOM 11883 C GLN D 265	29.761 67.158 113.938 1.00 13.72	C
ATOM 11884 O GLN D 265	29.284 67.510 112.836 1.00 13.91	O
ATOM 11885 N GLN D 266	29.188 66.252 114.739 1.00 12.91	N
ATOM 11887 CA GLN D 266	28.149 65.325 114.235 1.00 11.84	C
ATOM 11889 CB GLN D 266	27.945 64.059 115.134 1.00 11.26	C
ATOM 11892 CG GLN D 266	26.835 63.221 114.605 1.00 10.67	C
ATOM 11895 CD GLN D 266	26.473 62.038 115.472 1.00 9.95	C
ATOM 11896 OE1 GLN D 266	27.441 61.240 115.906 1.00 14.03	0
ATOM 11897 NE2 GLN D 266	25.095 61.840 115.695 1.00 9.62	N
ATOM 11900 C GLN D 266	26.893 66.124 114.044 1.00 10.73	C
ATOM 11901 O GLN D 266	26.124 65.836 113.138 1.00 10.79	O
ATOM 11902 N ARG D 267		N
ATOM 11904 CA ARG D 267		C
ATOM 11906 CB ARG D 267	25.658 69.131 115.851 1.00 10.02	С
ATOM 11909 CG ARG D 267	25.292 68.491 117.165 1.00 11.16	C
ATOM 11912 CD ARG D 267	25.501 69.363 118.383 1.00 12.48	С
ATOM 11915 NE ARG D 267	24.643 68.881 119.462 1.00 14.21	N
ATOM 11917 CZ ARG D 267	24.994 68.041 120.411 1.00 14.60	C
ATOM 11918 NH1 ARG D 267		N
ATOM 11921 NH2 ARG D 267	24.093 67.674 121.302 1.00 16.03	N
ATOM 11924 C ARG D 267	25.821 68.885 113.371 1.00 8.78	С
ATOM 11925 O ARG D 267	24.841 69.132 112.648 1.00 8.97	0
ATOM 11926 N PHE D 268	27.054 69.283 113.095 1.00 7.58	N
ATOM 11928 CA PHE D 268	27.375 70.047 111.908 1.00 8.70	C
ATOM 11930 CB PHE D 268	28.790 70.601 112.062 1.00 8.84	C
ATOM 11933 CG PHE D 268	29.219 71.516 110.957 1.00 10.11	C
ATOM 11934 CD1 PHE D 268	28.729 72.811 110.887 1.00 11.63	С
ATOM 11936 CE1 PHE D 268	29.142 73.670 109.868 1.00 11.77	C
ATOM 11938 CZ PHE D 268	30.060 73.230 108.922 1.00 12.70	C
ATOM 11940 CE2 PHE D 268	30.562 71.937 108.989 1.00 11.80	C
ATOM 11942 CD2 PHE D 268	30.145 71.092 110.003 1.00 11.22	С

ATOM 11944 C PHE D 26	8 27.245 69.208 110.625 1.00 9.18	С
ATOM 11945 O PHE D 26		Ο
ATOM 11946 N ALA D 26		N
ATOM 11948 CA ALA D 2		C
ATOM 11950 CB ALA D 2	69 28.250 65.598 110.063 1.00 10.31	С
ATOM 11954 C ALA D 26	59 26.083 66.592 109.228 1.00 10.91	С
ATOM 11955 O ALA D 26	59 25.729 66.630 108.035 1.00 12.36	Ο
ATOM 11956 N HIS D 270	25.258 66.372 110.264 1.00 11.18	N
ATOM 11958 CA HIS D 27		C
ATOM 11960 CB HIS D 27		С
ATOM 11963 CG HIS D 27	70 21.683 66.484 111.742 1.00 10.43	С
ATOM 11964 ND1 HIS D 2	70 20.923 65.342 111.597 1.00 11.21	N
ATOM 11966 CE1 HIS D 2		С
ATOM 11968 NE2 HIS D 2	70 19.553 66.931 112.026 1.00 10.35	N
ATOM 11970 CD2 HIS D 2		С
ATOM 11972 C HIS D 270	23.211 67.698 109.459 1.00 11.03	С
ATOM 11973 O HIS D 270	22.516 67.540 108.464 1.00 10.07	О
ATOM 11974 N PHE D 27		N
ATOM 11976 CA PHE D 2		C
ATOM 11978 CB PHE D 2	71 23.338 71.403 110.125 1.00 12.73	С
ATOM 11981 CG PHE D 2	71 22.560 71.629 111.385 1.00 13.70	С
ATOM 11982 CD1 PHE D 2	271 21.203 71.347 111.467 1.00 12.94	C
ATOM 11984 CE1 PHE D 2	271 20.500 71.577 112.633 1.00 13.61	C
ATOM 11986 CZ PHE D 2	71 21.137 72.109 113.746 1.00 14.47	C
ATOM 11988 CE2 PHE D 2	271 22.484 72.401 113.692 1.00 14.69	С
ATOM 11990 CD2 PHE D 2	271 23.197 72.161 112.507 1.00 15.14	С
ATOM 11992 C PHE D 27		С
ATOM 11993 O PHE D 27	22.601 70.837 107.099 1.00 13.59	О
ATOM 11994 N THR D 27	72 24.621 70.002 107.553 1.00 13.98	N
ATOM 11996 CA THR D 2	272 25.086 70.246 106.173 1.00 14.53	C
ATOM 11998 CB THR D 2		C
ATOM 12000 OG1 THR D	272 27.122 68.943 106.475 1.00 15.24	C
ATOM 12002 CG2 THR D	272 27.306 71.190 107.012 1.00 15.84	C
ATOM 12006 C THR D 27	72 24.445 69.214 105.206 1.00 14.43	С
ATOM 12007 O THR D 27		Ο
ATOM 12008 N GLU D 2		N
ATOM 12010 CA GLU D 2	273 23.338 67.043 105.059 1.00 14.64	С
ATOM 12012 CB GLU D 2	273 23.426 65.719 105.819 1.00 14.96	С
ATOM 12015 CG GLU D 2	273 24.778 65.038 105.647 1.00 16.16	С
ATOM 12018 CD GLU D 2	273 24.830 63.592 106.169 1.00 18.32	С
ATOM 12019 OE1 GLU D	273 23.809 62.878 106.075 1.00 19.66	0
ATOM 12020 OE2 GLU D	273 25.899 63.167 106.677 1.00 17.51	0
ATOM 12021 C GLU D 27	73 21.888 67.443 104.842 1.00 15.07	С
ATOM 12022 O GLU D 2'		Ο
ATOM 12023 N LEU D 27		N
ATOM 12025 CA LEU D 2	19.953 68.721 105.606 1.00 16.15	С
ATOM 12027 CB LEU D 2		C
ATOM 12030 CG LEU D 2	19.056 68.335 108.026 1.00 16.01	С

ATOM	12032	CD1 LEU D 274	18.540 69.067 109.263 1.00 16.34	С
			18.000 67.367 107.499 1.00 16.01	С
		C LEU D 274	20.056 69.776 104.516 1.00 16.68	С
		O LEU D 274		0
		N ALA D 275		N
			21.356 71.617 103.597 1.00 16.89	C
		CB ALA D 275	22.500 72.509 104.061 1.00 16.76	C
		C ALA D 275	21.583 71.118 102.192 1.00 17.11	C
		O ALA D 275	21.303 71.812 101.234 1.00 16.72	ŏ
		N ILE D 276	22.090 69.900 102.066 1.00 17.87	N
_		CA ILE D 276	22.223 69.283 100.760 1.00 18.36	Ĉ
			23.154 68.035 100.816 1.00 18.67	č
			24.608 68.473 100.639 1.00 18.87	C
				C
			25.608 67.385 100.887 1.00 18.69	C
			22.794 67.012 99.727 1.00 18.15	c
		C ILE D 276	20.832 68.935 100.221 1.00 18.77	
		O ILE D 276	20.526 69.241 99.077 1.00 18.97	0
		N ILE D 277		N
		CA ILE D 277	18.626 67.977 100.694 1.00 19.42	C
			17.814 67.396 101.907 1.00 19.72	C
			18.524 66.239 102.634 1.00 18.37	C
			19.224 65.322 101.768 1.00 19.65	C
			16.448 66.914 101.453 1.00 20.12	С
		C ILE D 277	17.908 69.228 100.193 1.00 19.62	C
<b>ATOM</b>	12089	O ILE D 277	17.204 69.171 99.196 1.00 19.60	О
<b>ATOM</b>	12090		18.096 70.353 100.885 1.00 19.92	N
<b>ATOM</b>	12092	CA SER D 278	17.355 71.567 100.574 1.00 20.02	C
ATOM	12094	CB SER D 278	17.558 72.644 101.655 1.00 19.97	С
ATOM	12097	OG SER D 278	18.492 73.625 101.252 1.00 21.92	Ο
ATOM	12099	C SER D 278	17.740 72.073 99.180 1.00 19.78	C
ATOM	12100	O SER D 278	16.882 72.363 98.358 1.00 19.35	О
ATOM	12101	N VAL D 279	19.040 72.165 98.936 1.00 19.89	N
			19.576 72.580 97.641 1.00 19.81	С
		CB VAL D 279		С
		CG1 VAL D 279		С
		CG2 VAL D 279		С
		C VAL D 279	18.982 71.734 96.522 1.00 20.45	С
		O VAL D 279	18.659 72.259 95.466 1.00 19.99	0
		N GLN D 280	18.835 70.432 96.767 1.00 21.26	N
		CA GLN D 280	18.253 69.518 95.793 1.00 21.89	C
		CB GLN D 280	18.454 68.061 96.226 1.00 22.04	Č
		CG GLN D 280	19.872 67.550 95.960 1.00 22.96	Č
		CD GLN D 280	20.046 66.071 96.261 1.00 24.00	č
		OE1 GLN D 280		O
				N
-		NE2 GLN D 280	16.774 69.799 95.496 1.00 22.33	C
=		C GLN D 280	16.340 69.632 94.367 1.00 22.96	Ö
ATOM				N
AIOM	12134	N GLU D 281	16.010 70.205 96.500 1.00 22.93	IA

ATOM 12136 CA GLU D 28	31 14.615 70.609 96.310 1.00 23.51	C	
ATOM 12138 CB GLU D 28	31 13.922 70.779 97.667 1.00 23.43	Č	
ATOM 12141 CG GLU D 28	31 13.495 69.457 98.254 1.00 23.68	C	
ATOM 12144 CD GLU D 28	31 13.353 69.463 99.760 1.00 25.28	Č	
ATOM 12145 OE1 GLU D 2	81 13.729 68.423 100.343 1.00 26.48	Ō	,
ATOM 12146 OE2 GLU D 2	81 12.861 70.465 100.359 1.00 24.67	Ŏ	
	14.496 71.921 95.542 1.00 23.98	c	
ATOM 12148 O GLU D 28	1 13.561 72.114 94.762 1.00 24.80	Ö	
	15.439 72.823 95.774 1.00 23.97		
	2 15.439 74.118 95.115 1.00 24.13		
	16.421 75.055 95.838 1.00 23.78		
	2 15.867 75.383 97.240 1.00 24.74		
ATOM 12158 CD1 ILE D 28	2 16.916 75.591 98.309 1.00 23.97	Č	
ATOM 12162 CG2 ILE D 28	2 16.662 76.327 95.020 1.00 23.83	Č	
ATOM 12166 C ILE D 282	15.751 73.985 93.600 1.00 24.22	c	
ATOM 12167 O ILE D 282	15.155 74.682 92.787 1.00 24.55	Ö	
	3 16.670 73.097 93.234 1.00 24.41		
	3 16.956 72.791 91.820 1.00 24.66		
	3 18.235 71.912 91.676 1.00 24.33		
	83 18.391 71.373 90.260 1.00 24.13		
ATOM 12178 CG2 VAL D 2	83 19.473 72.705 92.072 1.00 23.75	č	
	15.761 72.083 91.163 1.00 25.36	C	
ATOM 12183 O VAL D 283	15.421 72.357 90.018 1.00 25.75	Ö	
	15.122 71.179 91.895 1.00 26.12		
	4 13.939 70.481 91.407 1.00 26.56		
	13.477 69.450 92.449 1.00 26.78		
	4 14.515 68.305 92.682 1.00 27.85		
	14.259 67.409 93.538 1.00 30.00	Ö	
ATOM 12193 OD2 ASP D 28	34 15.603 68.210 92.054 1.00 30.37	Ö	
	12.782 71.436 91.138 1.00 26.95	C	
ATOM 12195 O ASP D 284	12.044 71.260 90.179 1.00 27.02		
	12.622 72.446 91.989 1.00 27.53		
	5 11.417 73.279 91.953 1.00 27.94		
	5 11.293 74.075 93.258 1.00 27.87		
	5 10.176 75.093 93.245 1.00 29.17		
ATOM 12204 CD1 PHE D 28		Č	
	5 7.821 75.630 93.177 1.00 30.27	Č	
ATOM 12208 CZ PHE D 285		Č	
ATOM 12210 CE2 PHE D 28		C	
ATOM 12212 CD2 PHE D 28		C	
ATOM 12214 C PHE D 285		C	
ATOM 12215 O PHE D 285		Ö	
ATOM 12216 N ALA D 286		N	
ATOM 12218 CA ALA D 28		C	
ATOM 12220 CB ALA D 286		Č	
ATOM 12224 C ALA D 286		c	
ATOM 12225 O ALA D 286		ŏ	
ATOM 12226 N LYS D 287		N	
		• ,	

ATOM	12228 CA LYS D 287	12.422 73.559 86.676 1.00 27.63	С
		12.979 72.134 86.616 1.00 27.51	C
ATOM	12233 CG LYS D 287	14.495 72.052 86.779 1.00 27.18	C
	12236 CD LYS D 287		C
<b>ATOM</b>	12239 CE LYS D 287	16.398 70.598 86.049 1.00 26.86	C
<b>ATOM</b>	12242 NZ LYS D 287	17.334 71.436 86.856 1.00 27.39	N
ATOM	12246 C LYS D 287	10.913 73.524 86.373 1.00 27.49	С
	12247 O LYS D 287	10.516 73.471 85.203 1.00 27.79	Ο
ATOM	12248 N GLN D 288	10.091 73.531 87.422 1.00 27.27	N
ATOM	12250 CA GLN D 288	8.626 73.517 87.304 1.00 26.99	C
	12252 CB GLN D 288	7.953 72.736 88.465 1.00 27.01	C
		8.863 71.878 89.396 1.00 26.76	C
		9.458 70.660 88.723 1.00 25.89	С
		9.535 70.602 87.493 1.00 25.79	O
	12260 NE2 GLN D 288		N
	12263 C GLN D 288	8.043 74.941 87.257 1.00 26.93	С
	12264 O GLN D 288		0
	12265 N VAL D 289		N
ATOM	12267 CA VAL D 289	8.426 77.352 87.510 1.00 27.16	С
ATOM	12260 CR VAL D 289	9.379 78.326 88.303 1.00 27.22	C
	12271 CG1 VAL D 289	8.891 79.799 88.205 1.00 27.25	C
	12271 CG1 VAL D 289		Č
	12279 C VAL D 289		c
	12280 O VAL D 289		Ö
		7.126 78.142 85.605 1.00 27.38	Ň
	12281 N PRO D 290	6.897 78.447 84.183 1.00 27.53	C
	12282 CA PRO D 290	5.381 78.718 84.093 1.00 27.35	Č
		4.873 78.829 85.482 1.00 27.65	C
		5.898 78.282 86.415 1.00 27.30	C
		•	c
	12293 C PRO D 290	7.699 79.645 83.668 1.00 27.65	0
	12294 O PRO D 290	7.530 80.781 84.151 1.00 27.72	N
	12295 N GLY D 291		C
		9.396 80.402 82.090 1.00 28.23	
		10.813 80.395 82.622 1.00 28.44	C
	12301 O GLY D 291	11.585 81.323 82.353 1.00 28.97	0
	12302 N PHE D 292	11.153 79.359 83.390 1.00 28.38	N
	12304 CA PHE D 292	12.541 79.097 83.782 1.00 28.34	C
	12306 CB PHE D 292	12.582 78.421 85.153 1.00 28.26	C
	12309 CG PHE D 292	13.969 78.304 85.731 1.00 28.51	C
	12310 CD1 PHE D 292	14.585 79.403 86.346 1.00 29.08	C
	12312 CE1 PHE D 292	15.864 79.289 86.895 1.00 29.07	C
	12314 CZ PHE D 292		C
	12316 CE2 PHE D 292	15.913 76.964 86.240 1.00 28.66	C
	12318 CD2 PHE D 292	14.644 77.089 85.698 1.00 28.29	C
	12320 C PHE D 292	13.219 78.216 82.691 1.00 28.38	C
=	12321 O PHE D 292	14.393 78.434 82.310 1.00 28.41	Ο
	12322 N LEU D 293	12.476 77.232 82.184 1.00 28.18	N
ATOM	12324 CA LEU D 293	12.965 76.387 81.080 1.00 28.35	С

ATOM	12326 CB LEU D 293	12.044 75.182 80.835 1.00 28.15	C
ATOM	12329 CG LEU D 293	11.584 74.346 82.039 1.00 28.44	С
	12331 CD1 LEU D 293		C
	12335 CD2 LEU D 293		C
	12339 C LEU D 293		С
		13.997 77.010 78.991 1.00 28.19	О
<b>ATOM</b>	12341 N GLN D 294	12.144 78.141 79.618 1.00 28.46	N
	12343 CA GLN D 294		$\mathbf{C}$
<b>ATOM</b>	12345 CB GLN D 294	10.831 79.920 78.570 1.00 28.28	С
<b>ATOM</b>	12348 CG GLN D 294	10.466 80.703 77.276 1.00 27.59	C
<b>ATOM</b>	12351 CD GLN D 294		C
	12352 OE1 GLN D 294		О
		10.861 83.053 76.639 1.00 26.90	N
<b>ATOM</b>	12356 C GLN D 294	13.353 79.970 78.391 1.00 28.23	C
		13.645 80.540 77.318 1.00 28.13	О
<b>ATOM</b>	12358 N LEU D 295	14.060 80.109 79.540 1.00 28.25	N
<b>ATOM</b>	12360 CA LEU D 295	15.302 80.897 79.636 1.00 28.11	С
<b>ATOM</b>	12362 CB LEU D 295	15.630 81.226 81.121 1.00 28.04	C
<b>ATOM</b>	12365 CG LEU D 295	15.554 82.709 81.532 1.00 28.57	С
		15.640 82.876 83.056 1.00 28.80	C
<b>ATOM</b>	12371 CD2 LEU D 295	16.640 83.533 80.833 1.00 28.63	C
ATOM	12375 C LEU D 295		C
	12376 O LEU D 295		О
<b>ATOM</b>	12377 N GLY D 296	17.653 80.835 78.927 1.00 27.22	N
ATOM	12379 CA GLY D 296	18.927 80.182 78.639 1.00 26.39	С
	12382 C GLY D 296		С
ATOM	12383 O GLY D 296	18.913 79.434 80.958 1.00 25.82	Ο
ATOM	12384 N ARG D 297	20.097 78.188 79.461 1.00 25.25	N
		20.495 77.161 80.443 1.00 24.86	С
ATOM	12388 CB ARG D 297	20.919 75.865 79.734 1.00 24.84	C
ATOM	12391 CG ARG D 297	20.364 74.576 80.346 1.00 24.74	С
ATOM	12394 CD ARG D 297	20.206 73.445 79.331 1.00 24.92	C
ATOM	12397 NE ARG D 297	21.310 73.414 78.361 1.00 24.99	N
ATOM	12399 CZ ARG D 297	21.184 73.382 77.030 1.00 25.02	C
ATOM	12400 NH1 ARG D 293	7 19.992 73.368 76.439 1.00 25.26	N
ATOM	12403 NH2 ARG D 293		N
ATOM	12406 C ARG D 297	21.628 77.648 81.360 1.00 24.55	С
ATOM	12407 O ARG D 297	21.660 77.313 82.548 1.00 24.58	O
ATOM	12408 N GLU D 298	22.557 78.433 80.812 1.00 24.01	N
ATOM	12410 CA GLU D 298		С
ATOM	12412 CB GLU D 298	24.625 79.757 80.737 1.00 23.52	C
ATOM	12415 CG GLU D 298	25.440 78.774 79.907 1.00 23.01	С
	12418 CD GLU D 298		C
	12419 OE1 GLU D 298		O
ATOM	12420 OE2 GLU D 298		О
ATOM	12421 C GLU D 298	22.934 80.134 82.551 1.00 23.51	С
ATOM	12422 O GLU D 298	23.381 80.375 83.704 1.00 23.44	О
ATOM	12423 N ASP D 299	21.862 80.740 82.036 1.00 23.15	N

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ATOM 12425 CA ASP D 299 21.087 81.711 82.789 1.00 23.01 C 20.078 82.417 81.860 1.00 22.83 C ATOM 12427 CB ASP D 299 ATOM 12430 CG ASP D 299 20.717 83.756 81.142 1.00 22.93  $\mathbf{C}$ 0 21.119 84.501 82.342 1.00 24.43 ATOM 12431 OD1 ASP D 299 20.873 84.135 79.437 1.00 21.52 0 ATOM 12432 OD2 ASP D 299 20.400 81.101 84.024 1.00 22.79  $\mathbf{C}$ ATOM 12433 C ASP D 299 ATOM 12434 O ASP D 299 20,202 81,793 85,039 1,00 23,01 0 ATOM 12435 N GLN D 300 20.054 79.811 83.940 1.00 22.49 N ATOM 12437 CA GLN D 300 19.496 79.076 85.083 1.00 22.30 C  $\mathbf{C}$ 18.956 77.720 84.632 1.00 22.53 ATOM 12439 CB GLN D 300 ATOM 12442 CG GLN D 300 17.777 77.794 83.684 1.00 22.81  $\mathbf{C}$ 17.348 76.352 83.232 1.00 25.00  $\mathbf{C}$ ATOM 12445 CD GLN D 300 ATOM 12446 OE1 GLN D 300 16.161 76.074 82.932 1.00 27.61 0 18.313 75.420 83.157 1.00 25.87 N ATOM 12447 NE2 GLN D 300 20.536 78.854 86.178 1.00 21.65 C ATOM 12450 C GLN D 300 O ATOM 12451 O GLN D 300 20.199 78.809 87.344 1.00 21.44 N 21.798 78.693 85.784 1.00 21.29 ATOM 12452 N ILE D 301 22.893 78.486 86.741 1.00 20.83 C ATOM 12454 CA ILE D 301  $\mathbf{C}$ 24.200 78.063 86.008 1.00 20.65 ATOM 12456 CB ILE D 301 23.997 76.768 85.199 1.00 20.83 C ATOM 12458 CG1 ILE D 301 C 25.057 76.532 84.117 1.00 20.59 ATOM 12461 CD1 ILE D 301  $\mathbf{C}$ 25.344 77.879 87.008 1.00 20.52 ATOM 12465 CG2 ILE D 301 C 23.169 79.726 87.656 1.00 20.35 ATOM 12469 C ILE D 301 23.414 79.554 88.840 1.00 19.89 O ATOM 12470 O ILE D 301 ATOM 12471 N ALA D 302 23.153 80.954 87.093 1.00 20.19 N 23.590 82.168 87.805 1.00 19.63 C ATOM 12473 CA ALA D 302 23.850 83.284 86.808 1.00 20.06  $\mathbf{C}$ ATOM 12475 CB ALA D 302 22.517 82.597 88.812 1.00 20.17 C ATOM 12479 C ALA D 302 22.805 83.014 89.994 1.00 19.10 O ATOM 12480 O ALA D 302 21.260 82.490 88.324 1.00 19.99 ATOM 12481 N LEU D 303 N 20.130 82.780 89.160 1.00 19.26  $\mathbf{C}$ ATOM 12483 CA LEU D 303  $\mathbf{C}$ 18.812 82.633 88.388 1.00 19.41 ATOM 12485 CB LEU D 303 18.558 83.676 87.275 1.00 19.77 C ATOM 12488 CG LEU D 303 17.155 83.525 86.665 1.00 19.43 C ATOM 12490 CD1 LEU D 303  $\mathbf{C}$ 18.770 85.100 87.802 1.00 19.37 ATOM 12494 CD2 LEU D 303 ATOM 12498 C LEU D 303 20.165 81.826 90.334 1.00 19.62  $\mathbf{C}$ 19.912 82.255 91.474 1.00 19.24 O ATOM 12499 O LEU D 303 N ATOM 12500 N LEU D 304 20.491 80.549 90.088 1.00 19.36 C 20.432 79.533 91.158 1.00 19.40 ATOM 12502 CA LEU D 304  $\mathbf{C}$ ATOM 12504 CB LEU D 304 20.355 78.109 90.596 1.00 19.64  $\mathbf{C}$ 18.940 77.536 90.438 1.00 20.03 ATOM 12507 CG LEU D 304 18.427 77.048 91.768 1.00 20.31  $\mathbf{C}$ ATOM 12509 CD1 LEU D 304  $\mathbf{C}$ 17.963 78.561 89.857 1.00 20.21 ATOM 12513 CD2 LEU D 304 21.592 79.660 92.121 1.00 19.18 C ATOM 12517 C LEU D 304 21.411 79.508 93.320 1.00 19.22 0 ATOM 12518 O LEU D 304 22.771 79.978 91.601 1.00 19.09 N ATOM 12519 N LYS D 305 23.942 80.227 92.449 1.00 19.09 C ATOM 12521 CA LYS D 305 25.210 80.469 91.609 1.00 19.03  $\mathbf{C}$ ATOM 12523 CB LYS D 305

ATOM 12526 CG LYS D 305 ATOM 12529 CD LYS D 305 ATOM 12532 CE LYS D 305 ATOM 12532 CE LYS D 305 ATOM 12534 CO LYS D 305 ATOM 12539 C LYS D 305 ATOM 12539 C LYS D 305 ATOM 12540 O LYS D 305 ATOM 12540 O LYS D 305 ATOM 12541 N ALA D 306 ATOM 12543 CA ALA D 306 ATOM 12545 CB ALA D 306 ATOM 12545 CB ALA D 306 ATOM 12545 CB ALA D 306 ATOM 12550 O ALA D 306 ATOM 12551 N SER D 307 ATOM 12551 N SER D 307 ATOM 12555 CB SER D 307 ATOM 12555 CB SER D 307 ATOM 12556 CB SER D 307 ATOM 12556 CB SER D 307 ATOM 12560 C SER D 307 ATOM 12570 CGZ ITR D 308 ATOM 12575 O THR D 308 ATOM 12575 O THR D 308 ATOM 12580 CGI ILE D 309 ATOM 12590 CG GLU D 310 ATOM 12600 C G GLU D 310 ATOM 12610 CAI ILE D 311 ATOM 12614 CB ILE D 311 ATOM 12614 CB ILE D 311 ATOM 12616 CGI ILE D 311 ATOM 12616 CGI ILE D 311 ATOM 12616 CGI ILE D 311 ATOM 12617 C ILE D 311 ATOM 12627 C ILE D 311 A			101	
ATOM 12532 CD LYS D 305 ATOM 12535 NZ LYS D 305 ATOM 12536 O LYS D 305 ATOM 12540 O LYS D 305 ATOM 12541 N ALA D 306 ATOM 12541 O LYS D 305 ATOM 12543 CA ALA D 306 ATOM 12545 CB ALA D 306 ATOM 12551 N SER D 307 ATOM 12555 CB SER D 307 ATOM 12555 CB SER D 307 ATOM 12555 CB SER D 307 ATOM 12560 C SER D 307 ATOM 12561 O SER D 307 ATOM 12560 C SER D 308 ATOM 12570 C CG2 THR D 308 ATOM 12570 C GG2 THR D 308 ATOM 12570 C SER D 309 ATOM 12570 C SER SER D 309 ATOM 12580 C SER D 309 ATOM 12590 N GLUD 310 ATOM 12600 C SER D 309 ATOM 12590 N GLUD 310 ATOM 12600 C SER D 309 ATOM 126	ATOM 12526 CO	3 LYS D 305	26.286 79.415 91.827 1.00 19.39	С
ATOM 12539 C LYS D 305 ATOM 12540 O LYS D 305 ATOM 12540 O LYS D 305 ATOM 12541 N ALA D 306 ATOM 12541 N ALA D 306 ATOM 12543 CA ALA D 306 ATOM 12545 CB ALA D 306 ATOM 12550 O ALA D 306 ATOM 12551 N SER D 307 ATOM 12552 CB SER D 307 ATOM 12553 CA SER D 307 ATOM 12555 CB SER D 307 ATOM 12556 C SER D 307 ATOM 12560 C SER D 307 ATOM 12560 C SER D 307 ATOM 12564 CA THR D 308 ATOM 12564 CA THR D 308 ATOM 12565 CB THR D 308 ATOM 12576 C B THR D 308 ATOM 12580 CB ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12580 CG ILE D 309 ATOM 12580 CG ILE D 309 ATOM 12590 C G GLU D 310 ATOM 12606 C G GLU D 310 ATOM 12607 C G GLU D 310 ATOM 12608 C GLU D 310 ATOM 12609 C G GLU D 310 ATOM 12600 C G GLU D 310 ATOM 12610 N ILE D 311 ATOM 12610 C GI I	ATOM 12529 CI	LYS D 305		C
ATOM 12539 C LYS D 305 ATOM 12540 O LYS D 305 ATOM 12541 N ALA D 306 ATOM 12541 N ALA D 306 ATOM 12542 CA ALA D 306 ATOM 12545 CB ALA D 306 ATOM 12545 CB ALA D 306 ATOM 12545 CB ALA D 306 ATOM 12545 C ALA D 306 ATOM 12550 O ALA D 306 ATOM 12551 N SER D 307 ATOM 12552 CB SER D 307 ATOM 12553 CA SER D 307 ATOM 12555 CB SER D 307 ATOM 12556 O SER D 307 ATOM 12560 C SER D 307 ATOM 12560 C SER D 307 ATOM 12561 O SER D 307 ATOM 12562 N THR D 308 ATOM 12564 CA THR D 308 ATOM 12565 CB THR D 308 ATOM 12566 CB THR D 308 ATOM 12570 CG2 THR D 308 ATOM 12570 CG2 THR D 308 ATOM 12576 O NILE D 309 ATOM 12582 CGI ILE D 309 ATOM 12585 CDI ILE D 309 ATOM 12585 CDI ILE D 309 ATOM 12585 CDI ILE D 309 ATOM 12595 CA GLU D 310 ATOM 12597 CA GLU D 310 ATOM 12597 CA GLU D 310 ATOM 12606 CE GLU D 310 ATOM 12607 OE2 GLU D 310 ATOM 12608 C GIU D 310 ATOM 12608 C GIU D 310 ATOM 12609 C GLU D 310 ATOM 12600 C GCI ILE D 311 ATOM 12610 N ILE D 311 ATOM 12610 C GI ILE D 311 ATOM 12616 CGI ILE D 311 ATOM 12620 CGI ILE D 311 ATOM 12616 CGI ILE D 311 ATOM 12616 CGI ILE D 311 ATOM 12616 CGI	ATOM 12532 CF	E LYS D 305	28.747 79.098 91.342 1.00 20.24	C
ATOM 12540 O LYS D 305 ATOM 12540 N ALA D 306 ATOM 12541 N ALA D 306 ATOM 12543 CA ALA D 306 ATOM 12545 CB ALA D 306 ATOM 12545 CB ALA D 306 ATOM 12549 C ALA D 306 ATOM 12550 O ALA D 306 ATOM 12551 N SER D 307 ATOM 12555 CB SER D 307 ATOM 12555 CB SER D 307 ATOM 12555 CB SER D 307 ATOM 12556 C SER D 307 ATOM 12560 C SER D 307 ATOM 12560 C SER D 307 ATOM 12560 C SER D 307 ATOM 12562 N THR D 308 ATOM 12566 CB THR D 308 ATOM 12574 C THR D 308 ATOM 12575 O THR D 308 ATOM 12576 N ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12593 C ILE D 309 ATOM 12599 CB GLU D 310 ATOM 12606 CB GLU D 310 ATOM 12606 CB GLU D 310 ATOM 12606 CB ILE D 311 ATOM 12610 CB ILE D 311 ATOM 12610 CB ILE D 311 ATOM 12610 CB ILE D 311 ATOM 12612 CA ILE D 311 ATOM 12612 CA ILE D 311 ATOM 12616 CGI ILE D 311 ATOM 12616 CGI ILE D 311 ATOM 12619 CDI ILE D 311 ATOM 12616 CGI ILE D 311 ATOM 12623 CGZ ILE D 311 IS.786 78.745 97.905 1.00 16.41 C C.7171 R8.93.00 1.00 18.41 C D 18.184.99 93.00 1			29.539 78.242 90.389 1.00 18.52	N
ATOM 12540 O LYS D 305 ATOM 12541 N ALA D 306 ATOM 12543 CA ALA D 306 ATOM 12543 CA ALA D 306 ATOM 12545 CB ALA D 306 ATOM 12545 CB ALA D 306 ATOM 12545 CB ALA D 306 ATOM 12549 C ALA D 306 ATOM 12550 O ALA D 306 ATOM 12551 N SER D 307 ATOM 12553 CA SER D 307 ATOM 12555 CB SER D 307 ATOM 12555 CB SER D 307 ATOM 12556 C SER D 307 ATOM 12560 C SER D 307 ATOM 12560 C SER D 307 ATOM 12562 N THR D 308 ATOM 12564 CA THR D 308 ATOM 12574 C THR D 308 ATOM 12575 O THR D 308 ATOM 12575 O THR D 308 ATOM 12576 N ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12580 C B ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12590 CB GLU D 310 ATOM 12606 CB GLU D 310 ATOM 12606 CB GLU D 310 ATOM 12607 CEZ GLU D 310 ATOM 12608 C GLU D 310 ATOM 12606 CB ILE D 311 ATOM 12610 N ILE D 311 ATOM 12610 CG ILE D	ATOM 12539 C	LYS D 305	23.718 81.390 93.436 1.00 18.96	C
ATOM 12543 CA ALA D 306 ATOM 12545 CB ALA D 306 ATOM 12549 C ALA D 306 ATOM 12550 O ALA D 306 ATOM 12551 N SER D 307 ATOM 12551 N SER D 307 ATOM 12553 CA SER D 307 ATOM 12555 CB SER D 307 ATOM 12556 CB SER D 307 ATOM 12556 C SER D 307 ATOM 12560 C SER D 307 ATOM 12560 C SER D 307 ATOM 12562 N THR D 308 ATOM 12566 CB THR D 308 ATOM 12568 OGI THR D 308 ATOM 12570 CG2 THR D 308 ATOM 12576 C R THR D 308 ATOM 12578 CA ILE D 309 ATOM 12578 CA ILE D 309 ATOM 12580 CG ILE D 309 ATOM 12580			24.157 81.307 94.579 1.00 18.44	O
ATOM 12543 CA ALA D 306 ATOM 12545 CB ALA D 306 ATOM 12549 C ALA D 306 ATOM 12550 O ALA D 306 ATOM 12551 N SER D 307 ATOM 12551 N SER D 307 ATOM 12555 CB SER D 307 ATOM 12555 CB SER D 307 ATOM 12556 CB SER D 307 ATOM 12556 C SER D 307 ATOM 12560 C SER D 307 ATOM 12561 O SER D 307 ATOM 12562 N THR D 308 ATOM 12566 CB THR D 308 ATOM 12566 CB THR D 308 ATOM 12570 CG2 THR D 308 ATOM 12576 C THR D 308 ATOM 12576 C B ILE D 309 ATOM 12578 CA ILE D 309 ATOM 12578 CA ILE D 309 ATOM 12585 CGI ILE D 309 ATOM 12580 CG ILE D 309 ATOM 12590 CA GLU D 310 ATOM 12602 CG GLU D 310 ATOM 12602 CG GLU D 310 ATOM 12604 CG ILU D 310 ATOM 12606 CE ILU D 310 ATOM 12606 CE ILU D 310 ATOM 12607 OEZ GLU D 310 ATOM 12608 C GLU D 310 ATOM 12609 CG ILU D 310 ATOM 12610 N ILE D 311 ATOM 12610 C GLU D 311 AT			23.045 82.459 93.001 1.00 18.73	N
ATOM 12545 CB ALA D 306 ATOM 12549 C ALA D 306 ATOM 12550 O ALA D 306 ATOM 12551 N SER D 307 ATOM 12553 CA SER D 307 ATOM 12555 CB SER D 307 ATOM 12555 CB SER D 307 ATOM 12556 C SER D 307 ATOM 12560 C SER D 307 ATOM 12562 N THR D 308 ATOM 12566 CB THR D 308 ATOM 12566 CB THR D 308 ATOM 12570 CG2 THR D 308 ATOM 12575 O THR D 308 ATOM 12575 O THR D 308 ATOM 12576 N ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12578 CA ILE D 309 ATOM 12580 CG ILE D 309 ATOM 12590 CB GLU D 310 ATOM 12600 CD			22.747 83.600 93.900 1.00 19.18	С
ATOM 12550 O ALA D 306 ATOM 12551 N SER D 307 ATOM 12553 CA SER D 307 ATOM 12555 CB SER D 307 ATOM 12555 CB SER D 307 ATOM 12556 CB SER D 307 ATOM 12560 C SER D 307 ATOM 12561 O SER D 307 ATOM 12566 CB THR D 308 ATOM 12566 CB THR D 308 ATOM 12568 OG1 THR D 308 ATOM 12570 CG2 THR D 308 ATOM 12575 C THR D 308 ATOM 12575 O THR D 308 ATOM 12576 N ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12576 N ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12576 N ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12590 CB GLU D 310 ATOM 12600 CB ILE D 311 ATOM 12610 N ILE D 311 ATOM 12610 CB ILE D 311 ATOM 12616 CG1 ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12625 CG2 ILE D 311 ATOM 12623 CG2 ILE D 311			22.711 84.906 93.108 1.00 19.22	С
ATOM 12551 N SER D 307 ATOM 12553 CA SER D 307 ATOM 12555 CB SER D 307 ATOM 12558 OG SER D 307 ATOM 12558 OG SER D 307 ATOM 12560 C SER D 307 ATOM 12561 O SER D 307 ATOM 12562 N THR D 308 ATOM 12566 CB THR D 308 ATOM 12566 CB THR D 308 ATOM 12566 CB THR D 308 ATOM 12567 OC G2 THR D 308 ATOM 12570 CG2 THR D 308 ATOM 12570 CG2 THR D 308 ATOM 12578 CA ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12580 CG ILE D 300 ATOM 12580 CG ILE D 310 ATOM 12680 CG ILE D 311 ATOM 12610 N ILE D 311 ATOM 12610 CG ILE D 311 ATOM 1			21.452 83.437 94.724 1.00 18.51	С
ATOM 12551 N SER D 307 ATOM 12553 CA SER D 307 ATOM 12555 CB SER D 307 ATOM 12556 CB SER D 307 ATOM 12558 OG SER D 307 ATOM 12560 C SER D 307 ATOM 12561 O SER D 307 ATOM 12562 N THR D 308 ATOM 12566 CB THR D 308 ATOM 12566 CB THR D 308 ATOM 12566 CB THR D 308 ATOM 12570 CG2 THR D 308 ATOM 12570 CG2 THR D 308 ATOM 12575 O THR D 308 ATOM 12575 O THR D 308 ATOM 12576 N ILE D 309 ATOM 12578 CA ILE D 309 ATOM 12582 CG1 ILE D 309 ATOM 12585 CD1 ILE D 309 ATOM 12585 CD1 ILE D 309 ATOM 12595 N GLU D 310 ATOM 12595 N GLU D 310 ATOM 12595 CG GLU D 310 ATOM 12605 CD GLU D 310 ATOM 12606 CEI GLU D 310 ATOM 12606 CEI GLU D 310 ATOM 12607 OE2 GLU D 310 ATOM 12616 CG1 ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12616 CG1 ILE D 311 ATOM 12616 CG1 ILE D 311 ATOM 12616 CG1 ILE D 311 ATOM 12623 CG2 ILE D 311				0
ATOM 12553 CA SER D 307 ATOM 12555 CB SER D 307 ATOM 12555 CB SER D 307 ATOM 12560 C SER D 307 ATOM 12561 O SER D 307 ATOM 12561 O SER D 307 ATOM 12562 N THR D 308 ATOM 12566 CB THR D 308 ATOM 12566 CB THR D 308 ATOM 12566 CB THR D 308 ATOM 12567 CG2 THR D 308 ATOM 12570 CG2 THR D 308 ATOM 12576 O THR D 308 ATOM 12575 O THR D 308 ATOM 12576 CB ILE D 309 ATOM 12580				N
ATOM 12555 CB SER D 307 ATOM 12558 OG SER D 307 ATOM 12560 C SER D 307 ATOM 12561 O SER D 307 ATOM 12562 N THR D 308 ATOM 12564 CA THR D 308 ATOM 12566 CB THR D 308 ATOM 12567 CG2 THR D 308 ATOM 12570 CG2 THR D 308 ATOM 12570 N ILE D 309 ATOM 12578 CA ILE D 309 ATOM 12582 CG1 ILE D 309 ATOM 12585 CD1 ILE D 309 ATOM 12589 CG2 ILE D 309 ATOM 12593 C ILE D 309 ATOM 12597 CA GLU D 310 ATOM 12590 CB GLU D 310 ATOM 12602 CG GLU D 310 ATOM 12604 CG ILE D 311 ATOM 12606 CG I ILE D 311 ATOM 12616 CG1 ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12624 CG ILE D 311 ATOM 12624 CG2 ILE D 311 ATOM 12624 CG2 ILE D 311 ATOM 12624 CG2 ILE D 3				С
ATOM 12558 OG SER D 307 ATOM 12560 C SER D 307 ATOM 12561 O SER D 307 ATOM 12562 N THR D 308 ATOM 12564 CA THR D 308 ATOM 12566 CB THR D 308 ATOM 12568 OGI THR D 308 ATOM 12567 CG2 THR D 308 ATOM 12570 CG2 THR D 308 ATOM 12570 CG2 THR D 308 ATOM 12575 O THR D 308 ATOM 12575 O THR D 308 ATOM 12576 N ILE D 309 ATOM 12578 CA ILE D 309 ATOM 12580 CBI ILE D 309 ATOM 12580 CGI ILE D 309 ATOM 12590 CG GG UD 310 ATOM 12591 CR GG UD 310 ATOM 12600 CG GLU D 310 ATOM 12600 CG GLU D 310 ATOM 12600 CG GLU D 310 ATOM 12601 CR GLU D 310 ATOM 12601 CG ILE D 311 ATOM 12610 CGI ILE D 311 ATOM 12610 CDI ILE D 311 ATOM 12610 CDI ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12624 CG ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12624 CG ILE D 311 ATOM 12624 CG ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12624 CG ILE D 311 ATOM 12624 CG ILE D 311 ATOM 12624 CG ILE D 311 ATOM 12625 CG2 ILE D 311 ATOM 12625 CG2 ILE D 311 ATOM 12624 CG ILE D 311 ATOM 12625 CG2 ILE D 311 A	ATOM 12555 CI	B SER D 307	18.174 82.212 93.667 1.00 17.87	С
ATOM 12560 C SER D 307 ATOM 12561 O SER D 307 ATOM 12561 O SER D 307 ATOM 12562 N THR D 308 ATOM 12564 CA THR D 308 ATOM 12566 CB THR D 308 ATOM 12566 CGB THR D 308 ATOM 12568 OG1 THR D 308 ATOM 12570 CG2 THR D 308 ATOM 12574 C THR D 308 ATOM 12575 O THR D 308 ATOM 12575 O THR D 309 ATOM 12575 CA ILE D 309 ATOM 12580 CG ILE D 309 ATOM 12590 C ILE D 309 ATOM 12590 C ILE D 309 ATOM 12590 CG GLU D 310 ATOM 12600 CG GLU D 310 ATOM 12600 CG GLU D 310 ATOM 12601 C R ILE D 311 ATOM 12610 CG ILE D 311 ATOM 12610 CGI ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12624 CG ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12624 CG ILE D 311 ATOM 12626 CG ILE	ATOM 12558 OF	G SER D 307	16.940 82.838 93.933 1.00 19.67	O
ATOM 12561 O SER D 307 ATOM 12562 N THR D 308 ATOM 12564 CA THR D 308 ATOM 12566 CB THR D 308 ATOM 12566 CB THR D 308 ATOM 12566 CG THR D 308 ATOM 12567 CG2 THR D 308 ATOM 12570 CG2 THR D 308 ATOM 12574 C THR D 308 ATOM 12575 O THR D 308 ATOM 12575 O THR D 309 ATOM 12575 CB ILE D 309 ATOM 12578 CA ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12580 CG I ILE D 309 ATOM 12590 C ILE D 309 ATOM 12590 CG G G I ILE D 309 ATOM 12590 CG G G I I I I I I I I I I I I I I I I	ATOM 12560 C	SER D 307	19.044 81.407 95.835 1.00 17.63	C
ATOM 12562 N THR D 308 ATOM 12564 CA THR D 308 ATOM 12566 CB THR D 308 ATOM 12566 CB THR D 308 ATOM 12566 CB THR D 308 ATOM 12568 OG1 THR D 308 ATOM 12570 CG2 THR D 308 ATOM 12570 CG2 THR D 308 ATOM 12575 O THR D 308 ATOM 12576 N ILE D 309 ATOM 12578 CA ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12582 CG1 ILE D 309 ATOM 12582 CG1 ILE D 309 ATOM 12585 CD1 ILE D 309 ATOM 12593 C ILE D 309 ATOM 12595 CG2 ILE D 309 ATOM 12594 O ILE D 309 ATOM 12595 N GLU D 310 ATOM 12597 CA GLU D 310 ATOM 12599 CB GLU D 310 ATOM 12606 OE1 GLU D 310 ATOM 12607 OE2 GLU D 310 ATOM 12608 C GLU D 310 ATOM 12608 C GLU D 310 ATOM 12608 C GLU D 310 ATOM 12609 O GLU D 310 ATOM 12609 O GLU D 310 ATOM 12619 CD ILE D 311 ATOM 12619 CDI ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12619 CDI ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12620 CG2 ILE D 311 ATOM 12619 CDI ILE D 311 ATOM 12619 CDI ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12624 CG1 ILE D 311 ATOM 12624 CG1 ILE D 311 ATOM 12624 CG1 ILE D 311 ATOM 12624 CG2 ILE D 311 ATOM 12624 CG2 ILE D 311 ATOM 12624 CG1 ILE D 311 ATOM 12625 CG2 ILE D 311 ATOM 12624 CG2 ILE D 311 ATOM 12625 CG2 ILE D 311	ATOM 12561 O	SER D 307	18.158 81.512 96.717 1.00 17.83	0
ATOM 12564 CA THR D 308 ATOM 12566 CB THR D 308 ATOM 12568 OG1 THR D 308 ATOM 12570 CG2 THR D 308 ATOM 12574 C THR D 308 ATOM 12575 O THR D 308 ATOM 12576 N ILE D 309 ATOM 12578 CA ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12593 C ILE D 309 ATOM 12593 C ILE D 309 ATOM 12594 O ILE D 309 ATOM 12595 N GLU D 310 ATOM 12597 CA GLU D 310 ATOM 12590 CB GLU D 310 ATOM 12600 CB GLU D 310 ATOM 12600 C GLU D 310 ATOM 12600 C GLU D 310 ATOM 12600 C GLU D 310 ATOM 12610 C CG ILLE D 311 ATOM 12610 C CG ILLE D 311 ATOM 12610 CD ILLE D 311 ATOM 12623 CG2 ILLE D 311 ATOM 12623 CG2 ILLE D 311 ATOM 12620 CG ILLE D 311 ATOM 12620 CG ILLE D 311 ATOM 12620 CG ILLE D 311 ATOM 12610 CD ILLE D 311 ATOM 12610 CD ILLE D 311 ATOM 12620 CG2 ILLE D 311 ATOM 12620 CG2 ILLE D 311 ATOM 12620 CG3 ILLE D				N
ATOM 12566 CB THR D 308 ATOM 12568 OG1 THR D 308 ATOM 12570 CG2 THR D 308 ATOM 12574 C THR D 308 ATOM 12575 O THR D 308 ATOM 12575 O THR D 308 ATOM 12576 N ILE D 309 ATOM 12578 CA ILE D 309 ATOM 12578 CB ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12590 CB GLU D 310 ATOM 12590 CB GLU D 310 ATOM 12590 CB GLU D 310 ATOM 12600 CB GLU D 310 ATOM 12600 CB ILE D 311 ATOM 12610 CB ILE D 311 ATOM 126	ATOM 12564 C	4 THR D 308		С
ATOM 12570 CG2 THR D 308 ATOM 12570 CG2 THR D 308 ATOM 12574 C THR D 308 ATOM 12575 O THR D 308 ATOM 12576 N ILE D 309 ATOM 12578 CA ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12580 CG ILE D 309 ATOM 12590 C ILE D 309 ATOM 12591 O ILE D 309 ATOM 12590 CB GLU D 310 ATOM 12600 CG GLU D 310 ATOM 12600 C GLU D 310 ATOM 12610 N ILE D 311 ATOM 12610 C GI ILE D 31	ATOM 12566 CI	3 THR D 308	20.696 78.051 96.243 1.00 16.18	С
ATOM 12570 CG2 THR D 308 ATOM 12574 C THR D 308 ATOM 12575 O THR D 308 ATOM 12576 N ILE D 309 ATOM 12578 CA ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12580 CG1 ILE D 309 ATOM 12580 CG2 ILE D 309 ATOM 12580 CG1 ILE D 309 ATOM 12580 CG2 ILE D 309 ATOM 12590 C ILE D 309 ATOM 12590 CB GLU D 310 ATOM 12600 CG ILE D 311 ATOM 12610 N ILE D 311 ATOM 12610 CG1 ILE				О
ATOM 12574 C THR D 308 ATOM 12575 O THR D 308 ATOM 12576 N ILE D 309 ATOM 12578 CA ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12585 CD1 ILE D 309 ATOM 12585 CD1 ILE D 309 ATOM 12589 CG2 ILE D 309 ATOM 12597 C A GLU D 310 ATOM 12597 CA GLU D 310 ATOM 12606 CD1 GLU D 310 ATOM 12607 OE2 GLU D 310 ATOM 12610 CR ILE D 311 ATOM 12616 CG1 ILE D 311 ATOM 12616 CG2 ILE D 311 ATOM 12616 CG1 ILE D 311 ATOM 12616 CG1 ILE D 311 ATOM 12610 CD1 ILE D 311 ATOM 12610 CG2 ILE D 311 ATOM 12610 CG1 ILE D 311 ATOM 1				C
ATOM 12575 O THR D 308 ATOM 12576 N ILE D 309 ATOM 12578 CA ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12582 CG1 ILE D 309 ATOM 12585 CD1 ILE D 309 ATOM 12589 CG2 ILE D 309 ATOM 12589 CG2 ILE D 309 ATOM 12589 CG2 ILE D 309 ATOM 12593 C ILE D 309 ATOM 12594 O ILE D 309 ATOM 12595 CA GLU D 310 ATOM 12605 CD GLU D 310 ATOM 12606 CEI GLU D 310 ATOM 12606 CEI GLU D 310 ATOM 12608 C GLU D 310 ATOM 12608 C GLU D 310 ATOM 12609 O GLU D 310 ATOM 12616 CG1 ILE D 311 ATOM 12616 CG1 ILE D 311 ATOM 12616 CG1 ILE D 311 ATOM 12619 CD1 ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12619 CD1 ILE D 311 ATOM 12619 CD1 ILE D 311 ATOM 12619 CD1 ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12619 CD1 ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12624 CG3 ILE D 311 ATOM 12624 CG2 ILE D 311 ATOM 12625 CG2 ILE D 311 ATOM 12624 CG3 ILE D 311 ATOM 12625 CG2 ILE D 311 ATOM 12624 CG3 ILE D 311 ATOM 12625 CG2 ILE D 311 ATOM 12624 CG3 ILE D 311 ATOM 12625 CG2 ILE D 311 ATOM 12624 CG3 ILE D 311 ATOM 12625 CG2 ILE D 311 ATOM 12624 CG3	ATOM 12574 C	THR D 308	19.590 79.414 98.026 1.00 15.93	С
ATOM 12576 N ILE D 309 ATOM 12578 CA ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12582 CG1 ILE D 309 ATOM 12585 CD1 ILE D 309 ATOM 12585 CD1 ILE D 309 ATOM 12589 CG2 ILE D 309 ATOM 12589 CG2 ILE D 309 ATOM 12593 C ILE D 309 ATOM 12594 O ILE D 309 ATOM 12595 N GLU D 310 ATOM 12597 CA GLU D 310 ATOM 12599 CB GLU D 310 ATOM 12606 CG1 GLU D 310 ATOM 12606 OE1 GLU D 310 ATOM 12607 OE2 GLU D 310 ATOM 12608 C GLU D 310 ATOM 12609 O GLU D 310 ATOM 12616 CG1 ILE D 311 ATOM 12616 CG1 ILE D 311 ATOM 12616 CG1 ILE D 311 ATOM 12619 CD1 ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12619 CD1 ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12619 CD1 ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12624 CG3 ILE D 311 ATOM 12624 C				O
ATOM 12578 CA ILE D 309 ATOM 12580 CB ILE D 309 ATOM 12582 CG1 ILE D 309 ATOM 12585 CD1 ILE D 309 ATOM 12585 CD1 ILE D 309 ATOM 12589 CG2 ILE D 309 ATOM 12589 CG2 ILE D 309 ATOM 12593 C ILE D 309 ATOM 12594 O ILE D 309 ATOM 12595 N GLU D 310 ATOM 12597 CA GLU D 310 ATOM 12599 CB GLU D 310 ATOM 12602 CG GLU D 310 ATOM 12605 CD GLU D 310 ATOM 12606 OE1 GLU D 310 ATOM 12607 OE2 GLU D 310 ATOM 12608 C GLU D 310 ATOM 12608 C GLU D 310 ATOM 12609 O GLU D 310 ATOM 12609 O GLU D 310 ATOM 12601 N ILE D 311 ATOM 12612 CA ILE D 311 ATOM 12616 CG1 ILE D 311 ATOM 12619 CD1 ILE D 311 ATOM 12623 CG2 ILE D 311 ATOM 12624 CG1 ILE D 311 ATOM 12624 CG1 ILE D 311 ATOM 12624 CG2 ILE D 311 ATOM 12624 CD 12.554 ATOM 12625 CG2 ILE D 311 ATOM 12624 CD 12.554 ATOM 12625 CG2 ILE D 311 ATOM 12624 CD 12.554 ATOM 12625 CG2 ILE D 311 ATOM 12624 CD 12.554 ATOM 12625 CG2 ILE D 311 ATOM 12624 CD 12.554 ATOM 12625 CG3 ILE D 311 ATOM 12625 CG1				N
ATOM 12580 CB ILE D 309 21.986 81.201 100.304 1.00 15.54 C ATOM 12582 CG1 ILE D 309 22.150 81.320 101.835 1.00 16.29 C ATOM 12585 CD1 ILE D 309 22.250 79.976 102.561 1.00 17.20 C ATOM 12589 CG2 ILE D 309 22.080 82.580 99.689 1.00 15.04 C ATOM 12593 C ILE D 309 19.447 81.382 100.337 1.00 15.85 C ATOM 12594 O ILE D 309 18.935 81.268 101.436 1.00 15.28 O ATOM 12595 N GLU D 310 17.871 83.116 99.775 1.00 16.15 N ATOM 12599 CB GLU D 310 17.871 83.116 99.775 1.00 16.39 C ATOM 12602 CG GLU D 310 17.709 84.213 98.740 1.00 16.24 C ATOM 12605 CD GLU D 310 18.863 85.197 98.770 1.00 16.79 C ATOM 12606 OE1 GLU D 310 18.715 86.298 97.733 1.00 19.76 C ATOM 12607 OE2 GLU D 310 17.562 86.586 97.321 1.00 20.43 O ATOM 12608 C GLU D 310 19.752 86.874 97.318 1.00 21.53 O ATOM 12609 O GLU D 310 16.581 82.319 99.929 1.00 16.61 C ATOM 12610 N ILE D 311 16.383 81.311 99.077 1.00 16.88 N ATOM 12612 CA ILE D 311 15.024 79.642 97.822 1.00 16.32 C ATOM 12616 CG1 ILE D 311 14.906 80.573 96.617 1.00 17.54 C ATOM 12619 CD1 ILE D 311 14.906 80.573 96.617 1.00 17.54 C ATOM 12619 CD1 ILE D 311 15.328 79.946 95.329 1.00 18.82 C ATOM 12623 CG2 ILE D 311 13.786 78.745 97.905 1.00 15.41 C			20.639 80.508 99.940 1.00 15.67	С
ATOM 12582 CG1 ILE D 309			21.986 81.201 100.304 1.00 15.54	C
ATOM 12585 CD1 ILE D 309				
ATOM 12593 C ILE D 309 19.447 81.382 100.337 1.00 15.85 C ATOM 12594 O ILE D 309 18.935 81.268 101.436 1.00 15.28 O ATOM 12595 N GLU D 310 19.000 82.252 99.445 1.00 16.15 N ATOM 12597 CA GLU D 310 17.871 83.116 99.775 1.00 16.39 C ATOM 12599 CB GLU D 310 17.709 84.213 98.740 1.00 16.24 C ATOM 12602 CG GLU D 310 18.863 85.197 98.770 1.00 16.79 C ATOM 12605 CD GLU D 310 18.715 86.298 97.733 1.00 19.76 C ATOM 12606 OE1 GLU D 310 17.562 86.586 97.321 1.00 20.43 ATOM 12607 OE2 GLU D 310 19.752 86.874 97.318 1.00 21.53 O ATOM 12608 C GLU D 310 16.581 82.319 99.929 1.00 16.61 C ATOM 12609 O GLU D 310 15.795 82.597 100.825 1.00 16.54 O ATOM 12610 N ILE D 311 16.383 81.311 99.077 1.00 16.88 N ATOM 12612 CA ILE D 311 15.196 80.455 99.138 1.00 16.43 C ATOM 12616 CG1 ILE D 311 15.024 79.642 97.822 1.00 16.32 C ATOM 12619 CD1 ILE D 311 15.328 79.946 95.329 1.00 18.82 C ATOM 12623 CG2 ILE D 311 13.786 78.745 97.905 1.00 15.41	ATOM 12585 CI	D1 ILE D 309	22.250 79.976 102.561 1.00 17.20	
ATOM 12594 O ILE D 309 18.935 81.268 101.436 1.00 15.28 O ATOM 12595 N GLU D 310 19.000 82.252 99.445 1.00 16.15 N ATOM 12597 CA GLU D 310 17.871 83.116 99.775 1.00 16.39 C ATOM 12599 CB GLU D 310 17.709 84.213 98.740 1.00 16.24 C ATOM 12602 CG GLU D 310 18.863 85.197 98.770 1.00 16.79 C ATOM 12605 CD GLU D 310 18.715 86.298 97.733 1.00 19.76 C ATOM 12606 OE1 GLU D 310 17.562 86.586 97.321 1.00 20.43 O ATOM 12607 OE2 GLU D 310 19.752 86.874 97.318 1.00 21.53 O ATOM 12608 C GLU D 310 16.581 82.319 99.929 1.00 16.61 C ATOM 12609 O GLU D 310 15.795 82.597 100.825 1.00 16.54 O ATOM 12610 N ILE D 311 16.383 81.311 99.077 1.00 16.88 N ATOM 12612 CA ILE D 311 15.196 80.455 99.138 1.00 16.43 C ATOM 12616 CG1 ILE D 311 15.024 79.642 97.822 1.00 16.32 C ATOM 12619 CD1 ILE D 311 15.328 79.946 95.329 1.00 18.82 C ATOM 12623 CG2 ILE D 311 13.786 78.745 97.905 1.00 15.41				
ATOM 12594 O ILE D 309 18.935 81.268 101.436 1.00 15.28 O ATOM 12595 N GLU D 310 19.000 82.252 99.445 1.00 16.15 N ATOM 12597 CA GLU D 310 17.871 83.116 99.775 1.00 16.39 C ATOM 12599 CB GLU D 310 17.709 84.213 98.740 1.00 16.24 C ATOM 12602 CG GLU D 310 18.863 85.197 98.770 1.00 16.79 C ATOM 12605 CD GLU D 310 18.715 86.298 97.733 1.00 19.76 C ATOM 12606 OE1 GLU D 310 17.562 86.586 97.321 1.00 20.43 O ATOM 12607 OE2 GLU D 310 19.752 86.874 97.318 1.00 21.53 O ATOM 12608 C GLU D 310 16.581 82.319 99.929 1.00 16.61 C ATOM 12609 O GLU D 310 15.795 82.597 100.825 1.00 16.54 O ATOM 12610 N ILE D 311 16.383 81.311 99.077 1.00 16.88 N ATOM 12612 CA ILE D 311 15.196 80.455 99.138 1.00 16.43 C ATOM 12614 CB ILE D 311 15.024 79.642 97.822 1.00 16.32 C ATOM 12619 CD1 ILE D 311 14.906 80.573 96.617 1.00 17.54 ATOM 12619 CD1 ILE D 311 15.328 79.946 95.329 1.00 18.82 C ATOM 12623 CG2 ILE D 311 13.786 78.745 97.905 1.00 15.41	ATOM 12593 C	ILE D 309	19.447 81.382 100.337 1.00 15.85	C
ATOM 12595 N GLU D 310 19.000 82.252 99.445 1.00 16.15 N ATOM 12597 CA GLU D 310 17.871 83.116 99.775 1.00 16.39 C ATOM 12599 CB GLU D 310 17.709 84.213 98.740 1.00 16.24 C ATOM 12602 CG GLU D 310 18.863 85.197 98.770 1.00 16.79 C ATOM 12605 CD GLU D 310 18.715 86.298 97.733 1.00 19.76 C ATOM 12606 OE1 GLU D 310 17.562 86.586 97.321 1.00 20.43 O ATOM 12607 OE2 GLU D 310 19.752 86.874 97.318 1.00 21.53 O ATOM 12608 C GLU D 310 16.581 82.319 99.929 1.00 16.61 C ATOM 12609 O GLU D 310 15.795 82.597 100.825 1.00 16.54 O ATOM 12610 N ILE D 311 16.383 81.311 99.077 1.00 16.88 N ATOM 12612 CA ILE D 311 15.196 80.455 99.138 1.00 16.43 C ATOM 12614 CB ILE D 311 15.024 79.642 97.822 1.00 16.32 C ATOM 12619 CD1 ILE D 311 14.906 80.573 96.617 1.00 17.54 C ATOM 12619 CD1 ILE D 311 15.328 79.946 95.329 1.00 18.82 C ATOM 12623 CG2 ILE D 311 13.786 78.745 97.905 1.00 15.41 C			18.935 81.268 101.436 1.00 15.28	O
ATOM 12599 CB GLU D 310 17.709 84.213 98.740 1.00 16.24 C ATOM 12602 CG GLU D 310 18.863 85.197 98.770 1.00 16.79 C ATOM 12605 CD GLU D 310 18.715 86.298 97.733 1.00 19.76 C ATOM 12606 OE1 GLU D 310 17.562 86.586 97.321 1.00 20.43 O ATOM 12607 OE2 GLU D 310 19.752 86.874 97.318 1.00 21.53 O ATOM 12608 C GLU D 310 16.581 82.319 99.929 1.00 16.61 C ATOM 12609 O GLU D 310 15.795 82.597 100.825 1.00 16.54 O ATOM 12610 N ILE D 311 16.383 81.311 99.077 1.00 16.88 N ATOM 12612 CA ILE D 311 15.196 80.455 99.138 1.00 16.43 C ATOM 12614 CB ILE D 311 15.024 79.642 97.822 1.00 16.32 C ATOM 12616 CG1 ILE D 311 14.906 80.573 96.617 1.00 17.54 C ATOM 12619 CD1 ILE D 311 15.328 79.946 95.329 1.00 18.82 ATOM 12623 CG2 ILE D 311 13.786 78.745 97.905 1.00 15.41 C			19.000 82.252 99.445 1.00 16.15	N
ATOM 12599 CB GLU D 310 17.709 84.213 98.740 1.00 16.24 C ATOM 12602 CG GLU D 310 18.863 85.197 98.770 1.00 16.79 C ATOM 12605 CD GLU D 310 18.715 86.298 97.733 1.00 19.76 C ATOM 12606 OE1 GLU D 310 17.562 86.586 97.321 1.00 20.43 O ATOM 12607 OE2 GLU D 310 19.752 86.874 97.318 1.00 21.53 O ATOM 12608 C GLU D 310 16.581 82.319 99.929 1.00 16.61 C ATOM 12609 O GLU D 310 15.795 82.597 100.825 1.00 16.54 O ATOM 12610 N ILE D 311 16.383 81.311 99.077 1.00 16.88 N ATOM 12612 CA ILE D 311 15.196 80.455 99.138 1.00 16.43 C ATOM 12614 CB ILE D 311 15.024 79.642 97.822 1.00 16.32 C ATOM 12616 CG1 ILE D 311 14.906 80.573 96.617 1.00 17.54 C ATOM 12619 CD1 ILE D 311 15.328 79.946 95.329 1.00 18.82 C ATOM 12623 CG2 ILE D 311 13.786 78.745 97.905 1.00 15.41 C	ATOM 12597 C	A GLU D 310	17.871 83.116 99.775 1.00 16.39	С
ATOM 12602 CG GLU D 310 18.863 85.197 98.770 1.00 16.79 C ATOM 12605 CD GLU D 310 18.715 86.298 97.733 1.00 19.76 C ATOM 12606 OE1 GLU D 310 17.562 86.586 97.321 1.00 20.43 O ATOM 12607 OE2 GLU D 310 19.752 86.874 97.318 1.00 21.53 O ATOM 12608 C GLU D 310 16.581 82.319 99.929 1.00 16.61 C ATOM 12609 O GLU D 310 15.795 82.597 100.825 1.00 16.54 O ATOM 12610 N ILE D 311 16.383 81.311 99.077 1.00 16.88 N ATOM 12612 CA ILE D 311 15.196 80.455 99.138 1.00 16.43 C ATOM 12614 CB ILE D 311 15.024 79.642 97.822 1.00 16.32 C ATOM 12616 CG1 ILE D 311 14.906 80.573 96.617 1.00 17.54 C ATOM 12623 CG2 ILE D 311 15.328 79.946 95.329 1.00 18.82 C ATOM 12623 CG2 ILE D 311 13.786 78.745 97.905 1.00 15.41 C			17.709 84.213 98.740 1.00 16.24	C
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ATOM 12616 CG1 ILE D 311 14.906 80.573 96.617 1.00 17.54 C ATOM 12619 CD1 ILE D 311 15.328 79.946 95.329 1.00 18.82 C ATOM 12623 CG2 ILE D 311 13.786 78.745 97.905 1.00 15.41 C	ATOM 12612 C.	A ILE D 311	15.196 80.455 99.138 1.00 16.43	
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ATOM 12627 C ILE D 311 15.282 79.505 100.327 1.00 16.25 C	_			
	ATOM 12627 C	ILE D 311	15.282 79.505 100.327 1.00 16.25	С

ATOM	12628	O ILE D 311	14.278 79.180 100.937 1.00 16.16	0
		N MET D 312	16.487 79.047 100.640 1.00 16.61	N
		CA MET D 312	16.723 78.240 101.845 1.00 16.86	С
		CB MET D 312	18.201 77.871 101.954 1.00 17.19	C
		CG MET D 312	18.607 76.768 101.012 1.00 18.43	C
		SD MET D 312	20.289 76.170 101.289 1.00 22.20	S
		CE MET D 312	20.250 75.803 103.019 1.00 18.61	Č
		C MET D 312	16.317 79.033 103.068 1.00 16.07	Č
		O MET D 312	15.593 78.551 103.911 1.00 14.90	Ö
		N LEU D 313	16.768 80.280 103.139 1.00 16.68	N
		CA LEU D 313	16.365 81.180 104.223 1.00 17.04	C
		CB LEU D 313		Č
		CG LEU D 313	18.547 82.513 104.400 1.00 17.76	Č
			19.208 83.823 103.952 1.00 18.34	C
		CD1 LEU D 313	18.804 82.280 105.860 1.00 19.95	C
		CD2 LEU D 313	14.857 81.362 104.305 1.00 16.87	c
		C LEU D 313		0
		O LEU D 313		N
		N LEU D 314	14.225 81.577 103.168 1.00 17.10	C
		<del>-</del> ·	12.757 81.688 103.099 1.00 17.60	C
		CB LEU D 314	12.306 81.977 101.652 1.00 17.58	C
		CG LEU D 314		
		CD1 LEU D 314		C
		CD2 LEU D 314		С
		C LEU D 314		C
		O LEU D 314		0
		N GLU D 315		N
			11.977 77.967 103.648 1.00 19.85	C
		CB GLU D 315	12.464 76.794 102.804 1.00 20.52	C
		CG GLU D 315	11.828 76.749 101.427 1.00 24.01	C
		CD GLU D 315		C
ATOM	12695	OE1 GLU D 315	10.126 75.141 101.884 1.00 29.90	О
ATOM	12696	OE2 GLU D 315		О
ATOM	12697	C GLU D 315	12.244 77.696 105.119 1.00 18.94	C
ATOM	12698	O GLU D 315	11.438 77.062 105.804 1.00 18.93	Ο
		N THR D 316	13.377 78.171 105.588 1.00 18.70	N
ATOM	12701	CA THR D 316	13.721 78.126 107.005 1.00 19.28	C
ATOM	12703	<b>CB THR D 316</b>	15.175 78.587 107.158 1.00 19.77	C
		OG1 THR D 316	16.031 77.580 106.594 1.00 18.05	C
		CG2 THR D 316		C
		C THR D 316	12.750 78.964 107.855 1.00 19.13	C
		O THR D 316	12.172 78.466 108.816 1.00 18.48	0
		N ALA D 317	12.519 80.216 107.457 1.00 19.55	N
		CA ALA D 317		C
-		CB ALA D 317	11.361 82.387 107.407 1.00 19.52	С
-		C ALA D 317	10.144 80.373 108.195 1.00 19.33	С
-		O ALA D 317	9.431 80.420 109.214 1.00 19.73	O
-		N ARG D 318	9.769 79.737 107.106 1.00 18.89	N
-		CA ARG D 318		C
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ATOM 12727 CB ARG D 318 8.355 78.550 105.601 1.00 19.48 ATOM 12730 CG ARG D 318 7.035 78.003 105.174 1.00 21.64 ATOM 12733 CD ARG D 318 7.104 77.675 103.715 1.00 23.82 ATOM 12736 NE ARG D 318 5.902 77.083 103.171 1.00 26.12

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ATOM 12738 CZ ARG D 318 5.640 77.042 101.869 1.00 29.28 ATOM 12739 NH1 ARG D 318 6.506 77.561 101.002 1.00 30.16

ATOM 12742 NH2 ARG D 318 4.522 76.474 101.415 1.00 30.77 ATOM 12745 C ARG D 318 8.358 77.954 108.039 1.00 18.09

ATOM 12746 O ARG D 318 7.266 77.599 108.475 1.00 16.87 ATOM 12747 N ARG D 319 9.507 77.404 108.429 1.00 17.86

ATOM 12749 CA ARG D 319 9.566 76.289 109.364 1.00 18.17 ATOM 12751 CB ARG D 319 10.649 75.314 108.919 1.00 18.45

ATOM 12751 CB ARG D 319 10.649 75.314 108.919 1.00 18.45
ATOM 12754 CG ARG D 319 10.297 74.581 107.673 1.00 19.65

ATOM 12757 CD ARG D 319 11.499 74.167 106.866 1.00 23.75 ATOM 12760 NE ARG D 319 11.108 73.800 105.512 1.00 26.57

ATOM 12762 CZ ARG D 319 10.545 72.656 105.185 1.00 27.80

ATOM 12763 NH1 ARG D 319 10.311 71.720 106.116 1.00 29.91 ATOM 12766 NH2 ARG D 319 10.221 72.434 103.915 1.00 28.11

ATOM 12769 C ARG D 319 9.817 76.724 110.810 1.00 17.72

ATOM 12770 O ARG D 319 9.992 75.879 111.699 1.00 17.32 ATOM 12771 N TYR D 320 9.826 78.033 111.018 1.00 17.56

ATOM 12773 CA TYR D 320 10.042 78.645 112.320 1.00 17.83 ATOM 12775 CB TYR D 320 10.654 80.049 112.176 1.00 17.57

ATOM 12778 CG TYR D 320 10.784 80.749 113.519 1.00 17.37 ATOM 12778 CG TYR D 320 10.784 80.749 113.519 1.00 18.20

ATOM 12779 CD1 TYR D 320 11.774 80.365 114.439 1.00 15.63 ATOM 12781 CE1 TYR D 320 11.861 80.966 115.671 1.00 15.30

ATOM 12781 CEI TIR D 320 11.801 80.900 113.071 1.80 13.30 ATOM 12783 CZ TYR D 320 10.978 81.978 116.006 1.00 16.00

ATOM 12784 OH TYR D 320 11.058 82.594 117.233 1.00 14.76 ATOM 12786 CE2 TYR D 320 9.993 82.375 115.115 1.00 17.33

ATOM 12788 CD2 TYR D 320 9.903 81.760 113.884 1.00 17.19 ATOM 12790 C TYR D 320 8.709 78.737 113.041 1.00 17.54

ATOM 12791 O TYR D 320 7.737 79.266 112.524 1.00 17.94 ATOM 12792 N ASN D 321 8.672 78.219 114.244 1.00 17.45

ATOM 12794 CA ASN D 321 7.494 78.300 115.089 1.00 17.31

ATOM 12796 CB ASN D 321 7.158 76.904 115.569 1.00 17.19 ATOM 12799 CG ASN D 321 6.001 76.875 116.523 1.00 16.67

ATOM 12800 OD1 ASN D 321 5.298 77.873 116.718 1.00 15.79

ATOM 12801 ND2 ASN D 321 5.789 75.719 117.120 1.00 13.63 ATOM 12804 C ASN D 321 7.801 79.192 116.276 1.00 17.26

ATOM 12804 C ASN D 321 7.801 79.192 116.276 1.00 17.26 ATOM 12805 O ASN D 321 8.603 78.820 117.103 1.00 16.90

ATOM 12806 N HIS D 322 7.166 80.359 116.364 1.00 18.26 ATOM 12808 CA HIS D 322 7.507 81.321 117.422 1.00 18.58

ATOM 12810 CB HIS D 322 6.952 82.690 117.149 1.00 18.38 ATOM 12813 CG HIS D 322 7.573 83.736 118.016 1.00 18.54

ATOM 12814 ND1 HIS D 322 7.373 83.736 118.016 1.00 18.34 ATOM 12814 ND1 HIS D 322 8.931 83.944 118.042 1.00 14.77 ATOM 12816 CE1 HIS D 322 9.203 84.920 118.890 1.00 19.42

ATOM 12816 CE1 HIS D 322 9.203 84.920 118.890 1.00 19.42 ATOM 12818 NE2 HIS D 322 8.078 85.310 119.460 1.00 19.88 ATOM 12820 CD2 HIS D 322 7.039 84.585 118.927 1.00 18.75

ATOM 12828 CB GLU D 323 ATOM 12831 CG GLU D 323 ATOM 12834 CD GLU D 323 ATOM 12835 OEI GLU D 323 ATOM 12836 OE2 GLU D 323 ATOM 12836 OE2 GLU D 323 ATOM 12837 C GLU D 323 ATOM 12838 O GLU D 323 ATOM 12839 N THR D 324 ATOM 12839 N THR D 324 ATOM 12841 CA THR D 324 ATOM 12843 CB THR D 324 ATOM 12845 OGI THR D 324 ATOM 12845 CGI THR D 324 ATOM 12845 CGI THR D 324 ATOM 12851 C THR D 324 ATOM 12852 O THR D 324 ATOM 12853 N GLU D 325 ATOM 12855 CA GLU D 325 ATOM 12866 O CG GLU D 325 ATOM 12866 C GLU D 325 ATOM 12867 CB GLU D 325 ATOM 12866 CG GLU D 325 ATOM 12866 CG GLU D 325 ATOM 12867 CB GLU D 325 ATOM 12868 N CYS D 326 ATOM 12870 CA CYS D 326 ATOM 12877 C GY S D 326 ATOM 12877 C G THR D 324 ATOM 12886 N CYS D 326 ATOM 12868 N CYS D 326 ATOM 12869 C C CYS D 326 ATOM 12878 N ILE D 327 ATOM 12887 CDI ILE D 327 ATOM 12888 CGI ILE D 327 ATOM 12889 C A THR D 324 ATOM 12889 C A THR D 327 ATOM 12889 C C THR D 328 ATOM 12889 C A THR D 327 ATOM 12889 C A THR D 328 ATOM 12889 C A THR D 327 ATOM 12889 C C THR D 327 ATOM 12889 C C THR D 328 ATOM 12889 C C THR D 328 ATOM 12899 C THR D 328 ATOM 12899 C THR D 328 ATOM 12890 C THR D 328 ATOM 12890 C THR D 328 ATOM 12900 C TH							
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ATOM 12826 CA GLU D 323 ATOM 12828 CB GLU D 323 ATOM 12831 CG GLU D 323 ATOM 12834 CD GLU D 323 ATOM 12835 OEI GLU D 323 ATOM 12835 OEI GLU D 323 ATOM 12836 OE2 GLU D 323 ATOM 12837 C GLU D 323 ATOM 12838 O GLU D 323 ATOM 12838 O GLU D 323 ATOM 12839 N THR D 324 ATOM 12841 CA THR D 324 ATOM 12841 CA THR D 324 ATOM 12845 OGI THR D 324 ATOM 12845 OGI THR D 324 ATOM 12855 C THR D 324 ATOM 12855 C GLU D 323 ATOM 12856 O GLU D 325 ATOM 12860 C G GLU D 325 ATOM 12870 C THR D 324 ATOM 12887 CB GLU D 325 ATOM 12887 CB GLU D 325 ATOM 12860 CG GLU D 325 ATOM 12860 CG GLU D 325 ATOM 12866 C GLU D 325 ATOM 12867 O GLU D 325 ATOM 12867 O GLU D 325 ATOM 12868 N CYS D 326 ATOM 12870 C A CYS D 326 ATOM 12877 O CYS D 326 ATOM 12887 CB ILE D 327 ATOM 12887 CB ILE D 327 ATOM 12887 CD ILE D 327 ATOM 12880 CA ILE D 327 ATOM 12887 CD ILE D 327 ATOM 12887 CD ILE D 327 ATOM 12887 CD ILE D 327 ATOM 12889 C A THR D 328 ATOM 12887 CD ILE D 327 ATOM 12889 C A THR D 328 ATOM 12889 C A THR D 328 ATOM 12899 C THR D 328 ATOM 12899 C THR D 328 ATOM 12890 C C THR D 328 ATOM 12900 C T				7.558 83	1.530 119.8	09 1.00 19.70	_
ATOM 12828 CB GLU D 323 ATOM 12831 CG GLU D 323 ATOM 12831 CG GLU D 323 ATOM 12834 CD GLU D 323 ATOM 12835 OEI GLU D 323 ATOM 12836 OE2 GLU D 323 ATOM 12836 OE2 GLU D 323 ATOM 12837 C GLU D 323 ATOM 12838 O GLU D 323 ATOM 12839 N THR D 324 ATOM 12839 N THR D 324 ATOM 12841 CA THR D 324 ATOM 12843 CB THR D 324 ATOM 12845 OGI THR D 324 ATOM 12851 C THR D 324 ATOM 12852 O THR D 324 ATOM 12853 N GLU D 325 ATOM 12855 CA GLU D 325 ATOM 12856 OC GG LU D 325 ATOM 12866 C GLU D 325 ATOM 12866 CG GLU D 325 ATOM 12866 CG GLU D 325 ATOM 12866 CG GLU D 325 ATOM 12867 OGI THR D 324 ATOM 12868 N CYS D 326 ATOM 12870 CA CYS D 326 ATOM 12877 O CYS D 326 ATOM 12878 N ILE D 327 ATOM 12887 CDI ILE D 327 ATOM 12888 CB ILE D 327 ATOM 12887 CDI ILE D 327 ATOM 12889 CA THR D 328 ATOM 12899 CA THR D 328 ATOM 12899 CA THR D 328 ATOM 12899 CA THR D 328 ATOM 12909 C THR D 328	ATOM 128	324 N	GLU D 323	6.177	79.993 118.9	917   1.00   19.44	
ATOM 12831 CG GLU D 323 ATOM 12836 OED GLU D 323 ATOM 12837 C GLU D 323 ATOM 12838 O GLU D 323 ATOM 12838 O GLU D 323 ATOM 12839 N THR D 324 ATOM 12839 N THR D 324 ATOM 12841 CA THR D 324 ATOM 12843 CB THR D 324 ATOM 12845 OGI THR D 324 ATOM 12845 CG THR D 324 ATOM 12846 OED GLU D 325 ATOM 12857 CB GLU D 325 ATOM 12858 O GLU D 325 ATOM 12866 CG GLU D 325 ATOM 12866 CG GLU D 325 ATOM 12867 O GLU D 325 ATOM 12868 N CYS D 326 ATOM 12868 N CYS D 326 ATOM 12876 C CYS D 326 ATOM 12877 O CYS D 326 ATOM 12887 CDI LE D 327 ATOM 12888 CB ILE D 327 ATOM 12887 CDI LE D 327 ATOM 12888 CGI LLE D 327 ATOM 12889 C A THR D 328 ATOM 12887 CDI LE D 327 ATOM 12888 CGI LLE D 327 ATOM 12889 C A THR D 328 ATOM 12889 C A THR D 328 ATOM 12889 C A THR D 328 ATOM 12889 C C THR D 327 ATOM 12880 CB ILE D 327 ATOM 12880 CB ILE D 327 ATOM 12887 CDI LE D 327 ATOM 12889 C A THR D 328 ATOM 12899 C A THR D 328 ATOM 12899 C A THR D 328 ATOM 12903 CGI THR D 328 ATOM 12900 C THR D 3	ATOM 128	326 CA	GLU D 323				
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ATOM 12835 OEI GLU D 323 ATOM 12836 OE2 GLU D 323 ATOM 12837 C GLU D 323 ATOM 12838 O GLU D 323 ATOM 12838 O GLU D 323 ATOM 12839 N THR D 324 ATOM 12841 CA THR D 324 ATOM 12843 CB THR D 324 ATOM 12845 OGI THR D 324 ATOM 12847 CG2 THR D 324 ATOM 12857 CB CLU D 325 ATOM 12858 O GLU D 325 ATOM 12860 CG GLU D 325 ATOM 12870 CA CYS D 326 ATOM 12							
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ATOM	12911	N PHE D 329	13.025 71.215 110.464 1.00 16.80	N
		CA PHE D 329	13.433 70.649 109.163 1.00 16.73	C
		<b>CB PHE D 329</b>	14.947 70.610 109.061 1.00 16.33	C
		CG PHE D 329	15.599 71.944 109.248 1.00 16.35	C
		CD1 PHE D 329	16.548 72.131 110.232 1.00 16.46	С
		CE1 PHE D 329	17.153 73.366 110.407 1.00 17.18	С
		CZ PHE D 329	16.793 74.444 109.601 1.00 16.19	С
		CE2 PHE D 329	15.846 74.276 108.617 1.00 16.57	C
		CD2 PHE D 329	15.250 73.029 108.437 1.00 17.38	C
		C PHE D 329	12.855 69.231 108.981 1.00 16.91	C
		O PHE D 329	12.749 68.487 109.939 1.00 16.26	Ö
		N LEU D 330	12.446 68.891 107.758 1.00 17.66	N
		CA LEU D 330	11.826 67.595 107.464 1.00 18.92	C
		CB LEU D 330	12.834 66.430 107.679 1.00 18.97	Č
		CG LEU D 330	14.223 66.578 107.022 1.00 19.75	Č
			14.981 65.279 107.018 1.00 21.17	C
		CD1 LEU D 330	14.125 67.091 105.588 1.00 21.19	Č
		CD2 LEU D 330	10.506 67.396 108.233 1.00 19.73	c
		C LEUD 330	9.634 68.249 108.180 1.00 19.79	Õ
		O LEU D 330	10.335 66.262 108.905 1.00 21.46	N
		N LYS D 331	9.118 66.001 109.669 1.00 22.37	C
		CA LYS D 331	8.794 64.494 109.636 1.00 22.37	C
		CB LYS D 331		C
		CG LYS D 331	7.361 64.127 110.081 1.00 22.45	C
		CD LYS D 331	7.120 62.615 110.109 1.00 23.00	C
		CE LYS D 331	5.755 62.248 110.728 1.00 23.00	
		NZ LYS D 331	5.570 60.770 110.919 1.00 20.66	N
		C LYS D 331	9.300 66.503 111.106 1.00 23.16	C
		O LYS D 331	8.596 67.404 111.550 1.00 24.15	0
		N ASP D 332	10.292 65.945 111.797 1.00 24.04	N
		CA ASP D 332	10.420 66.028 113.263 1.00 24.26	C
		CB ASP D 332	10.373 64.604 113.875 1.00 24.72	C
		= :	9.113 63.836 113.527 1.00 26.74	C
		OD1 ASP D 332	8.089 63.993 114.237 1.00 30.75	0
ATOM	12981	OD2 ASP D 332	9.063 63.013 112.588 1.00 29.44	О
		C ASP D 332	11.735 66.653 113.749 1.00 23.27	C
ATOM	12983	O ASP D 332	11.973 66.685 114.952 1.00 23.21	О
ATOM	12984	N PHE D 333	12.612 67.078 112.842 1.00 22.47	N
ATOM	12986	CA PHE D 333	13.938 67.558 113.247 1.00 21.94	C
ATOM	12988	CB PHE D 333	14.982 67.321 112.140 1.00 21.90	С
ATOM	12991	CG PHE D 333	15.239 65.857 111.836 1.00 21.19	C
		CD1 PHE D 333	15.286 65.397 110.526 1.00 22.30	C
ATOM	12994	CE1 PHE D 333	15.531 64.027 110.248 1.00 21.21	С
		CZ PHE D 333	15.736 63.149 111.279 1.00 20.04	C
		CE2 PHE D 333	15.705 63.600 112.586 1.00 20.23	С
		CD2 PHE D 333	15.456 64.941 112.860 1.00 21.17	C
		C PHE D 333	13.851 69.032 113.657 1.00 21.78	С
		O PHE D 333	13.855 69.928 112.817 1.00 21.60	O
	13004		13.746 69.264 114.966 1.00 21.52	N

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ATOM 13006 CA THR D 334 13.354 70.566 115.523 1.00 21.15 C 12.076 70.373 116.346 1.00 21.06 ATOM 13008 CB THR D 334 C 11.013 70.024 115.458 1.00 22.39 ATOM 13010 OG1 THR D 334 0 ATOM 13012 CG2 THR D 334 11.601 71.667 117.000 1.00 20.50 C 14.473 71.119 116.391 1.00 20.64 ATOM 13016 C THR D 334  $\mathbf{C}$ ATOM 13017 O THR D 334 14.993 70.410 117.256 1.00 21.61 0 14.821 72.382 116.174 1.00 19.47 N ATOM 13018 N TYR D 335 16.045 72.956 116.709 1.00 18.85 C ATOM 13020 CA TYR D 335 C ATOM 13022 CB TYR D 335 17.151 72.911 115.633 1.00 18.58  $\mathbf{C}$ ATOM 13025 CG TYR D 335 17.442 71.498 115.222 1.00 19.49 ATOM 13026 CD1 TYR D 335 17.247 71.067 113.926 1.00 18.92 C C 17.492 69.744 113.583 1.00 20.64 ATOM 13028 CE1 TYR D 335 17.918 68.850 114.547 1.00 18.93 ATOM 13030 CZ TYR D 335 18.156 67.535 114.226 1.00 22.78 O ATOM 13031 OH TYR D 335 ATOM 13033 CE2 TYR D 335 18.106 69.255 115.831 1.00 19.01 C 17.863 70.559 116.173 1.00 20.56  $\mathbf{C}$ ATOM 13035 CD2 TYR D 335 15.864 74.383 117.184 1.00 17.90 C ATOM 13037 C TYR D 335 ATOM 13038 O TYR D 335 15.299 75.200 116.469 1.00 17.11 O ATOM 13039 N SER D 336 16.361 74.656 118.388 1.00 17.04 N  $\mathbf{C}$ ATOM 13041 CA SER D 336 16.422 76.008 118.966 1.00 16.74  $\mathbf{C}$ 16.370 75.896 120.488 1.00 16.83 ATOM 13043 CB SER D 336 ATOM 13046 OG SER D 336 17.539 75.217 120.966 1.00 15.76 0 17.738 76.715 118.596 1.00 16.17  $\mathbf{C}$ ATOM 13048 C SER D 336 ATOM 13049 O SER D 336 18.640 76.105 118.069 1.00 14.89 0 ATOM 13050 N LYS D 337 17.841 78.005 118.892 1.00 16.72 N 19.128 78.708 118.826 1.00 17.06  $\mathbf{C}$ ATOM 13052 CA LYS D 337 19.050 80.027 119.578 1.00 16.51  $\mathbf{C}$ ATOM 13054 CB LYS D 337 ATOM 13057 CG LYS D 337 18.776 81.191 118.672 1.00 15.93 C  $\mathbf{C}$ 18.930 82.497 119.394 1.00 14.66 ATOM 13060 CD LYS D 337  $\mathbf{C}$ ATOM 13063 CE LYS D 337 18.332 83.573 118.544 1.00 15.20 18.517 84.917 119.049 1.00 10.93 N ATOM 13066 NZ LYS D 337 20.270 77.875 119.438 1.00 17.88 C ATOM 13070 C LYS D 337 21.382 77.794 118.903 1.00 17.72 O ATOM 13071 O LYS D 337 N 19.980 77.245 120.567 1.00 18.12 ATOM 13072 N ASP D 338 ATOM 13074 CA ASP D 338 21.020 76.548 121.270 1.00 18.82  $\mathbf{C}$ C 20.553 76.052 122.634 1.00 19.01 ATOM 13076 CB ASP D 338 21.628 76.157 123.630 1.00 20.94 C ATOM 13079 CG ASP D 338 22.111 75.106 124.095 1.00 22.65 0 ATOM 13080 OD1 ASP D 338 22.092 77.274 123.956 1.00 24.02 0 ATOM 13081 OD2 ASP D 338 21.599 75.405 120.463 1.00 18.23 ATOM 13082 C ASP D 338 C 22.796 75.212 120.476 1.00 18.26 0 ATOM 13083 O ASP D 338 20.757 74.662 119.756 1.00 18.03 N ATOM 13084 N ASP D 339 21.239 73.572 118.897 1.00 17.64  $\mathbf{C}$ ATOM 13086 CA ASP D 339 20.076 72.795 118.327 1.00 17.74 C ATOM 13088 CB ASP D 339 19.237 72.203 119.390 1.00 19.52 C ATOM 13091 CG ASP D 339 19.816 71.651 120.345 1.00 21.13 ATOM 13092 OD1 ASP D 339  $\mathbf{O}$ 17.994 72.259 119.379 1.00 23.92 ATOM 13093 OD2 ASP D 339 0 ATOM 13094 C ASP D 339 22.117 74.056 117.758 1.00 16.92 C

ATOM	13095	O ASP D 339	23.059 73.373 117.360 1.00 15.53	0
		N PHE D 340	21.819 75.233 117.222 1.00 16.37	N
ATOM	13098	CA PHE D 340	22.664 75.743 116.153 1.00 16.21	C
ATOM	13100	CB PHE D 340	21.995 76.888 115.419 1.00 15.86	С
		CG PHE D 340	20.819 76.452 114.618 1.00 15.58	С
		CD1 PHE D 340	19.536 76.601 115.103 1.00 14.28	C
		CE1 PHE D 340	18.447 76.189 114.357 1.00 13.86	Ċ
		CZ PHE D 340	18.628 75.599 113.142 1.00 13.49	Č
		CE2 PHE D 340	19.894 75.423 112.650 1.00 14.38	Ċ
		CD2 PHE D 340	20.992 75.846 113.389 1.00 15.91	Č
		C PHE D 340	24.045 76.109 116.658 1.00 16.12	c
			25.034 75.841 115.995 1.00 16.50	ŏ
			24.111 76.712 117.834 1.00 16.63	N
			25.386 77.143 118.384 1.00 16.82	C
				C
ATOM	13120	CB HIS D 341	26.480 78.792 119.946 1.00 19.44	C
		CG HIS D 341	27.128 79.614 119.047 1.00 21.11	N
		ND1 HIS D 341	_ : : = =: :	C
		CE1 HIS D 341	28.218 80.105 119.611 1.00 22.20	N
			28.307 79.626 120.839 1.00 21.65	C
		00211100011	27.240 78.790 121.068 1.00 21.17	-
			26.231 75.949 118.753 1.00 16.10	C
		O HIS D 341	27.440 75.986 118.597 1.00 15.56	0
		N ARG D 342	25.571 74.886 119.205 1.00 15.87	N
		CA ARG D 342	26.224 73.620 119.568 1.00 16.07	C
		CB ARG D 342	25.207 72.687 120.229 1.00 16.05	С
		CG ARG D 342	24.788 73.102 121.623 1.00 17.32	С
		CD ARG D 342	24.621 71.926 122.539 1.00 21.25	C
<b>ATOM</b>	13147	NE ARG D 342	23.364 71.878 123.275 1.00 23.52	N
<b>ATOM</b>	13149	CZ ARG D 342	23.038 70.870 124.098 1.00 25.50	С
<b>ATOM</b>	13150	NH1 ARG D 342	23.869 69.835 124.275 1.00 24.03	N
<b>ATOM</b>	13153	NH2 ARG D 342	21.877 70.897 124.752 1.00 26.29	N
ATOM	13156	C ARG D 342	26.868 72.879 118.378 1.00 15.73	C
ATOM	13157	O ARG D 342	27.777 72.055 118.571 1.00 15.89	Ο
		N ALA D 343		N
		CA ALA D 343	26.960 72.634 115.929 1.00 15.14	C
		CB ALA D 343	25.902 72.529 114.834 1.00 15.08	C
		C ALA D 343	28.113 73.519 115.449 1.00 14.86	С
		O ALA D 343	28.660 73.303 114.386 1.00 14.33	O
		N GLY D 344	28.441 74.547 116.214 1.00 15.18	N
		CA GLY D 344	29.626 75.336 115.959 1.00 15.39	С
-		C GLY D 344	29.379 76.548 115.109 1.00 15.41	С
ATOM			30.318 77.254 114.767 1.00 15.98	Ō
-		N LEU D 345	28.127 76.801 114.763 1.00 15.74	N
-		CA LEU D 345	27.800 77.972 113.955 1.00 16.56	Ĉ
-		CB LEU D 345	26.405 77.838 113.337 1.00 16.66	č
		CG LEU D 345	26.208 76.577 112.502 1.00 17.17	Č
		CD1 LEU D 345	24.875 76.607 111.832 1.00 17.49	C
		CD2 LEU D 345	27.314 76.427 111.457 1.00 19.65	Č
W I OW	12100	CD2 LLU D 343	21.314 10.421 111.431 1.00 19.03	

ATOM	13192	C LEU D 345	27.912 79.257 114.784 1.00 16.89	C
		O LEU D 345		O
		N GLN D 346	28.342 80.327 114.116 1.00 17.06	N
ATOM	13196	<b>CA GLN D 346</b>	28.632 81.607 114.760 1.00 17.19	C
		CB GLN D 346	29.423 82.522 113.814 1.00 17.60	С
ATOM	13201	CG GLN D 346	30.644 81.878 113.171 1.00 18.33	С
		CD GLN D 346	31.568 81.261 114.198 1.00 20.92	C
		OE1 GLN D 346	32.017 81.946 115.117 1.00 21.20	О
		<b>NE2 GLN D 346</b>	31.856 79.963 114.050 1.00 23.47	N
		C GLN D 346	27.338 82.297 115.154 1.00 17.01	С
		O GLN D 346	26.332 82.137 114.474 1.00 16.46	Ο
		N VAL D 347	27.374 83.062 116.248 1.00 17.07	N
		CA VAL D 347	26.223 83.862 116.681 1.00 17.24	C
		CB VAL D 347	26.372 84.370 118.164 1.00 17.60	C
ATOM	13217	<b>CG1 VAL D 347</b>	25.872 85.805 118.358 1.00 17.35	C
ATOM	13221	<b>CG2 VAL D 347</b>	25.592 83.430 119.085 1.00 18.18	C
		C VAL D 347	25.925 84.985 115.680 1.00 16.88	С
ATOM	13226	O VAL D 347	24.769 85.279 115.414 1.00 16.62	O
		N GLU D 348	26.960 85.555 115.073 1.00 17.02	N
		CA GLU D 348	26.776 86.529 113.980 1.00 17.07	С
ATOM	13231	CB GLU D 348	28.140 86.949 113.415 1.00 17.09	C
ATOM	13234	CG GLU D 348	28.975 87.801 114.359 1.00 16.95	С
ATOM	13237	CD GLU D 348	29.917 87.001 115.260 1.00 17.25	С
ATOM	13238	OE1 GLU D 348	29.938 85.753 115.213 1.00 15.66	О
ATOM	13239	<b>OE2 GLU D 348</b>	30.637 87.642 116.048 1.00 17.91	О
ATOM	13240	C GLU D 348	25.890 86.012 112.820 1.00 17.19	С
<b>ATOM</b>	13241	O GLU D 348	25.370 86.800 112.015 1.00 17.00	Ο
ATOM	13242	N PHE D 349	25.754 84.686 112.733 1.00 17.57	N
ATOM	13244	CA PHE D 349	24.993 83.991 111.690 1.00 17.56	С
ATOM	13246	CB PHE D 349	25.837 82.795 111.226 1.00 18.32	С
ATOM	13249	CG PHE D 349	25.294 82.031 110.029 1.00 22.06	С
ATOM	13250	CD1 PHE D 349	24.759 82.679 108.924 1.00 24.50	С
ATOM	13252	CE1 PHE D 349		С
ATOM	13254	CZ PHE D 349	24.425 80.574 107.808 1.00 25.29	С
		CE2 PHE D 349	24.965 79.911 108.899 1.00 25.21	С
ATOM	13258	CD2 PHE D 349	25.409 80.632 109.989 1.00 24.56	С
ATOM	13260	C PHE D 349	23.657 83.539 112.268 1.00 16.59	С
ATOM	13261	O PHE D 349	22.601 83.689 111.625 1.00 17.28	О
ATOM	13262	N ILE D 350	23.667 83.033 113.504 1.00 14.79	N
ATOM	13264	CA ILE D 350	22.426 82.522 114.080 1.00 13.52	C
ATOM	13266	CB ILE D 350	22.703 81.689 115.349 1.00 13.14	С
ATOM	13268	CG1 ILE D 350	23.477 80.427 115.004 1.00 12.85	С
ATOM	13271	CD1 ILE D 350	24.246 79.916 116.203 1.00 12.77	С
		CG2 ILE D 350	21.415 81.277 116.076 1.00 11.63	С
ATOM	13279	C ILE D 350	21.430 83.662 114.365 1.00 13.33	C
ATOM	13280	O ILE D 350	20.234 83.535 114.069 1.00 12.57	О
ATOM	13281	N ASN D 351	21.905 84.757 114.959 1.00 12.77	N
ATOM	13283	CA ASN D 351	20.970 85.791 115.419 1.00 12.60	С

ATOM 13285 CB ASN D 351	21.639 86.826 116.351 1.00 11.66	С
ATOM 13288 CG ASN D 351		С
ATOM 13289 OD1 ASN D 351	21.364 85.223 118.101 1.00 11.58	О
ATOM 13290 ND2 ASN D 351	22.777 86.898 118.506 1.00 10.28	N
ATOM 13293 C ASN D 351	20.175 86.415 114.272 1.00 12.17	C
ATOM 13294 O ASN D 351	18.971 86.361 114.321 1.00 12.15	Ο
ATOM 13295 N PRO D 352	20.811 86.935 113.223 1.00 12.68	N
ATOM 13296 CA PRO D 352	20.048 87.518 112.090 1.00 12.89	С
ATOM 13298 CB PRO D 352	21.149 87.956 111.116 1.00 12.57	C
ATOM 13301 CG PRO D 352	22.367 88.225 112.029 1.00 12.50	C
ATOM 13304 CD PRO D 352	22.271 87.046 113.004 1.00 12.68	С
ATOM 13307 C PRO D 352	19.036 86.580 111.399 1.00 13.07	C
ATOM 13308 O PRO D 352	18.056 87.078 110.891 1.00 13.51	Ο
ATOM 13309 N ILE D 353	19.271 85.273 111.360 1.00 14.77	N
ATOM 13311 CA ILE D 353	18.375 84.337 110.666 1.00 15.44	C
ATOM 13313 CB ILE D 353	19.061 83.008 110.399 1.00 15.39	C
ATOM 13315 CG1 ILE D 353	20.047 83.132 109.239 1.00 17.58	C
ATOM 13318 CD1 ILE D 353	20.850 81.852 108.991 1.00 18.21	С
ATOM 13322 CG2 ILE D 353	18.073 81.938 110.012 1.00 16.28	C
ATOM 13326 C ILE D 353	17.139 84.120 111.511 1.00 16.28	С
ATOM 13327 O ILE D 353	16.029 84.022 110.985 1.00 16.70	О
ATOM 13328 N PHE D 354	17.338 84.049 112.824 1.00 16.01	N
ATOM 13330 CA PHE D 354	16.226 83.954 113.731 1.00 16.18	C
ATOM 13332 CB PHE D 354	16.669 83.566 115.167 1.00 16.26	С
ATOM 13335 CG PHE D 354	16.669 82.083 115.390 1.00 14.24	C
ATOM 13336 CD1 PHE D 354	17.727 81.308 114.940 1.00 13.74	C
ATOM 13338 CE1 PHE D 354	17.726 79.933 115.104 1.00 14.59	C
ATOM 13340 CZ PHE D 354	16.637 79.313 115.725 1.00 15.36	C
ATOM 13342 CE2 PHE D 354	15.558 80.077 116.155 1.00 13.49	C
ATOM 13344 CD2 PHE D 354	15.575 81.459 115.969 1.00 14.41	C
ATOM 13346 C PHE D 354		С
ATOM 13347 O PHE D 354		О
ATOM 13348 N GLU D 355		N
ATOM 13350 CA GLU D 355		С
ATOM 13352 CB GLU D 355	15.769 88.844 114.123 1.00 20.16	С
ATOM 13355 CG GLU D 355	16.542 89.686 113.143 1.00 23.24	C
ATOM 13358 CD GLU D 355	17.096 90.915 113.836 1.00 27.30	С
ATOM 13359 OE1 GLU D 355		C
ATOM 13360 OE2 GLU D 355	16.566 92.016 113.640 1.00 31.79	C
ATOM 13361 C GLU D 355	14.411 87.773 112.301 1.00 18.02	С
ATOM 13362 O GLU D 355	13.314 88.305 112.252 1.00 17.33	Ο
ATOM 13363 N PHE D 356	15.048 87.310 111.224 1.00 18.12	N
ATOM 13365 CA PHE D 356	14.381 87.291 109.929 1.00 17.54	С
ATOM 13367 CB PHE D 356	15.316 86.833 108.843 1.00 18.10	С
ATOM 13370 CG PHE D 356	14.651 86.667 107.510 1.00 19.20	C
ATOM 13371 CD1 PHE D 356		C
ATOM 13373 CE1 PHE D 356	13.804 87.595 105.438 1.00 19.22	С
ATOM 13375 CZ PHE D 356	13.439 86.342 105.003 1.00 17.86	С

ATOM	13377		13.683 85.238 105.803 1.00 20.18	C
			14.280 85.399 107.055 1.00 19.82	C
ATOM	13381	C PHE D 356	13.177 86.371 110.011 1.00 17.21	C
		O PHE D 356	12.080 86.744 109.577 1.00 16.56	О
		N SER D 357	13.374 85.197 110.614 1.00 16.08	N
			12.318 84.231 110.733 1.00 16.00	С
		CB SER D 357	12.863 82.921 111.322 1.00 16.71	С
			13.823 82.288 110.449 1.00 14.50	Ο
		C SER D 357		С
			9.994 84.544 111.260 1.00 16.43	0
ATOM	13394	N ARG D 358	11.473 85.568 112.596 1.00 16.89	N
			10.436 86.112 113.474 1.00 16.31	C
		CB ARG D 358	11.060 86.830 114.662 1.00 16.33	C
			11.152 86.056 115.934 1.00 17.48	C
		CD ARG D 358	11.729 86.912 117.052 1.00 20.26	C
		NE ARG D 358		N
		CZ ARG D 358		C
			14.354 88.238 116.956 1.00 19.07	N
		NH2 ARG D 358	15.242 86.175 117.439 1.00 22.42	N
		C ARG D 358	9.598 87.118 112.705 1.00 16.20	C O
		O ARG D 358	8.374 87.170 112.844 1.00 15.37	N
		N ALA D 359	10.269 87.947 111.920 1.00 16.45	C
		CA ALA D 359	9.580 88.987 111.148 1.00 17.28 10.582 89.941 110.512 1.00 17.05	C
		CB ALA D 359	8.690 88.361 110.087 1.00 17.53	C
		C ALA D 359	7.560 88.798 109.876 1.00 17.97	o
		O ALA D 359 N MET D 360	9.199 87.316 109.449 1.00 18.83	N
		CA MET D 360	8.457 86.585 108.422 1.00 19.27	C
		CB MET D 360	9.323 85.473 107.835 1.00 18.85	Č
		CG MET D 360	10.382 85.957 106.843 1.00 18.94	C
		SD MET D 360	9.743 86.806 105.396 1.00 21.35	S
		CE MET D 360	8.502 85.627 104.774 1.00 21.00	Č
		C MET D 360	7.170 86.016 109.002 1.00 20.13	C
		O MET D 360	6.100 86.129 108.400 1.00 18.70	Ö
		N ARG D 361	7.290 85.447 110.201 1.00 21.90	N
		CA ARG D 361	6.174 84.834 110.907 1.00 23.42	С
		CB ARG D 361	6.665 84.197 112.191 1.00 24.79	С
		CG ARG D 361	5.692 83.203 112.775 1.00 28.89	C
		CD ARG D 361	5.643 81.963 111.923 1.00 34.68	С
		NE ARG D 361	4.583 81.042 112.295 1.00 38.61	N
		CZ ARG D 361	4.120 80.118 111.473 1.00 42.14	C
		NH1 ARG D 361	4.604 80.026 110.229 1.00 42.41	N
		NH2 ARG D 361	3.158 79.289 111.888 1.00 43.94	N
<b>ATOM</b>	13467	C ARG D 361	5.104 85.821 111.286 1.00 23.42	C
ATOM	13468	O ARG D 361	3.925 85.477 111.342 1.00 24.04	О
		N ARG D 362	5.513 87.049 111.563 1.00 23.68	N
ATOM	13471	CA ARG D 362	4.559 88.113 111.885 1.00 24.21	C
ATOM	13473	CB ARG D 362	5.279 89.325 112.489 1.00 24.12	С

ATOM	13476	CG ARG D 362	5.563 89.158 113.981 1.00 25.37	C
		CD ARG D 362		С
-		NE ARG D 362		N
		CZ ARG D 362		C
		NH1 ARG D 362	7.928 92.133 113.290 1.00 35.68	N
		NH2 ARG D 362	9.710 90.997 114.171 1.00 29.73	N
		C ARG D 362		C
		O ARG D 362		Õ
			4.223 88.234 109.473 1.00 24.23	N
		CA LEU D 363	3.463 88.535 108.258 1.00 24.15	C
		CB LEU D 363		č
		CG LEU D 363		Č
			6.031 89.758 105.676 1.00 25.29	C
				C
			4.207 91.108 106.715 1.00 24.59	C
		C LEUD 363		
		O LEU D 363		O
		N GLY D 364		N
			1.635 85.214 108.287 1.00 24.01	C
			1.352 84.865 106.846 1.00 23.85	C
		O GLY D 364	0.206 84.788 106.464 1.00 24.01	0
		N LEU D 365		N
			2.221 84.279 104.650 1.00 24.58	C
		CB LEU D 365		C
		CG LEU D 365		С
			5.344 85.532 102.705 1.00 25.33	С
ATOM	13532	CD2 LEU D 365	3.626 86.776 104.042 1.00 26.01	С
<b>ATOM</b>	13536	C LEU D 365	1.638 82.874 104.514 1.00 24.93	C
ATOM	13537	O LEU D 365		O
ATOM	13538	N ASP D 366	0.607 82.718 103.681 1.00 25.11	N
ATOM	13540	CA ASP D 366	0.110 81.372 103.345 1.00 25.42	C
ATOM	13542	CB ASP D 366	-1.384 81.354 102.926 1.00 24.99	С
		CG ASP D 366		С
			-0.865 82.799 101.070 1.00 24.72	Ο
			-2.922 82.802 101.710 1.00 23.98	0
		C ASP D 366	1.046 80.691 102.330 1.00 25.60	С
		O ASP D 366	2.121 81.211 102.031 1.00 25.84	0
		N ASP D 367	0.670 79.517 101.838 1.00 25.74	N
		CA ASP D 367	1.551 78.763 100.945 1.00 25.71	С
=		CB ASP D 367	0.983 77.363 100.678 1.00 25.96	Č
		CG ASP D 367	0.888 76.510 101.927 1.00 25.99	Č
		OD1 ASP D 367	1.788 76.575 102.787 1.00 25.17	O
•		OD1 AS1 D 367 OD2 ASP D 367	-0.069 75.733 102.118 1.00 27.86	Ŏ
		C ASP D 367	1.730 79.477 99.605 1.00 25.15	С
		O ASP D 367	2.827 79.503 99.038 1.00 25.46	Ö
		N ALA D 368	0.641 80.040 99.099 1.00 24.22	N
		CA ALA D 368	0.673 80.766 97.833 1.00 23.64	C
-		CB ALA D 368	-0.708 81.318 97.506 1.00 23.61	C
-		C ALA D 368	1.681 81.902 97.872 1.00 23.10	c
ATUM	133/0	C ALA D 309	1.001 01.702 71.072 1.00 23.10	C

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172 ATOM 13571 O ALA D 368 2.428 82.111 96.905 1.00 23.25 ATOM 13572 N GLU D 369 ATOM 13574 CA GLU D 369 ATOM 13576 CB GLU D 369 ATOM 13579 CG GLU D 369 ATOM 13582 CD GLU D 369 ATOM 13583 OE1 GLU D 369 ATOM 13584 OE2 GLU D 369 ATOM 13585 C GLU D 369 ATOM 13586 O GLU D 369 ATOM 13587 N TYR D 370 ATOM 13589 CA TYR D 370 ATOM 13591 CB TYR D 370 ATOM 13594 CG TYR D 370 ATOM 13595 CD1 TYR D 370 ATOM 13597 CE1 TYR D 370 ATOM 13599 CZ TYR D 370 ATOM 13600 OH TYR D 370 ATOM 13602 CE2 TYR D 370 ATOM 13604 CD2 TYR D 370 ATOM 13606 C TYR D 370 ATOM 13607 O TYR D 370 ATOM 13608 N ALA D 371 ATOM 13610 CA ALA D 371

ATOM 13612 CB ALA D 371

ATOM 13616 C ALA D 371

ATOM 13617 O ALA D 371

ATOM 13618 N LEU D 372

ATOM 13620 CA LEU D 372

ATOM 13622 CB LEU D 372

ATOM 13625 CG LEU D 372

ATOM 13627 CD1 LEU D 372 ATOM 13631 CD2 LEU D 372

ATOM 13635 C LEU D 372 ATOM 13636 O LEU D 372

ATOM 13637 N LEU D 373

ATOM 13639 CA LEU D 373

ATOM 13641 CB LEU D 373

ATOM 13644 CG LEU D 373 ATOM 13646 CD1 LEU D 373

ATOM 13650 CD2 LEU D 373

ATOM 13654 C LEU D 373

ATOM 13655 O LEU D 373 ATOM 13656 N ILE D 374

ATOM 13658 CA ILE D 374

ATOM 13660 CB ILE D 374 ATOM 13662 CG1 ILE D 374

ATOM 13665 CD1 ILE D 374

1.691 82.629 98.990 1.00 22.03 2.511 83.816 99.117 1.00 21.31 2.104 84.634 100.365 1.00 21.22 0.813 85.424 100.102 1.00 20.90 0.153 86.072 101.321 1.00 19.79 -0.415 87.168 101.153 1.00 17.89 0.144 85.494 102.423 1.00 17.91 3.975 83.418 99.081 1.00 20.93 4.744 84.004 98.322 1.00 20.49 4.345 82.395 99.857 1.00 20.98 5.727 81.892 99.878 1.00 21.12 5.896 80.742 100.896 1.00 21.08 6.216 81.184 102.311 1.00 21.99 5.260 81.100 103.337 1.00 23.12 5.558 81.534 104.663 1.00 21.94 6.810 82.049 104.957 1.00 23.03 7.112 82.479 106.263 1.00 25.50 7.774 82.153 103.950 1.00 21.94 7.475 81.716 102.636 1.00 23.21 6.166 81.444 98.474 1.00 21.05 7.297 81.665 98.047 1.00 21.37 5.251 80.834 97.740 1.00 21.17 5.563 80.263 96.418 1.00 20.62 4.501 79.315 96.045 1.00 20.58 5.752 81.321 95.300 1.00 20.48 6.556 81.153 94.317 1.00 20.25 5.015 82.418 95.477 1.00 20.23 5.093 83.563 94.584 1.00 19.99 3.827 84.413 94.692 1.00 19.96 2.626 83.838 93.941 1.00 20.08 1.315 84.479 94.375 1.00 19.70 2.806 83.998 92.443 1.00 20.63 6.315 84.416 94.907 1.00 20.05 6.963 84.920 93.985 1.00 20.44 6.629 84.557 96.202 1.00 19.51 7.800 85.302 96.648 1.00 19.22 7.872 85.398 98.207 1.00 19.24 8.021 86.779 98.837 1.00 19.46 8.081 86.667 100.355 1.00 19.71 9.262 87.425 98.331 1.00 20.42 9.037 84.596 96.091 1.00 18.74 9.922 85.223 95.513 1.00 18.49 9.100 83.288 96.312 1.00 18.29 10.227 82.472 95.827 1.00 18.22 9.999 80.978 96.162 1.00 18.42 10.242 80.730 97.656 1.00 19.63

9.598 79.469 98.203 1.00 20.49

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ATOM	13669	CG2 ILE D 374	10.940 80.076 95.338 1.00 18.65	C
			10.417 82.671 94.315 1.00 17.54	С
			11.536 82.863 93.848 1.00 16.73	0
		N ALA D 375		N
			9.393 82.871 92.125 1.00 16.61	С
			8.028 82.672 91.468 1.00 16.59	С
ATOM	13683	C ALA D 375	9.974 84.256 91.803 1.00 16.29	C
ATOM	13684	O ALA D 375	10.880 84.385 90.918 1.00 16.64	O
		N ILE D 376	9.498 85.281 92.544 1.00 16.20	N
			10.032 86.638 92.379 1.00 16.40	С
			9.248 87.627 93.324 1.00 16.11	С
			7.825 87.803 92.781 1.00 16.30	C
ATOM	13694	CD1 ILE D 376	6.843 88.452 93.715 1.00 16.19	C
ATOM	13608	CG2 II F D 376	9.955 89.010 93.470 1.00 15.48	Č
ATOM	13702	C II F D 376	11.538 86.666 92.678 1.00 17.41	C
ATOM	13702	O II F D 376	12.324 87.309 91.972 1.00 16.20	Ō
ATOM	13704	N ASN D 377	11.923 85.948 93.738 1.00 19.09	N
ATOM	13704	CA ASN D 377	13.297 85.930 94.250 1.00 20.66	С
ATOM	13700	CR ASN D 377	13.382 85.211 95.609 1.00 21.50	C
ATOM	13700	CG ASN D 377	14.758 85.331 96.231 1.00 22.32	Ċ
ATOM	13711	OD1 ASN D 377	15.659 84.486 96.019 1.00 24.66	O
ATOM	13712	ND2 ASN D 377	14.940 86.428 96.962 1.00 26.15	N
ATOM	13716	C ASN D 377	14.264 85.247 93.303 1.00 21.20	C
ATOM	13717	O ASN D 377	15.445 85.658 93.169 1.00 22.09	0
ATOM	13718	N ILE D 378	13.731 84.242 92.605 1.00 22.45	N
ATOM	13720	CA ILE D 378	14.450 83.547 91.538 1.00 22.55	С
ATOM	13720	CB ILE D 378	13.658 82.292 91.021 1.00 22.50	С
ATOM	13724	CG1 ILE D 378	13.750 81.164 92.056 1.00 22.30	С
ATOM	13727	CD1 ILE D 378	12.946 79.921 91.696 1.00 22.32	С
ATOM	13731	CG2 ILE D 378	14.210 81.777 89.682 1.00 22.42	С
		C ILE D 378	14.710 84.538 90.421 1.00 22.67	С
ATOM	13736	O ILE D 378	15.822 84.598 89.899 1.00 23.46	0
			13.693 85.314 90.058 1.00 23.13	N
			13.713 86.023 88.775 1.00 23.43	C
		CB PHE D 379	12.330 85.940 88.102 1.00 23.42	C
		CG PHE D 379	11.977 84.551 87.586 1.00 23.26	C
		CD1 PHE D 379		C
		CE1 PHE D 379	10.481 82.638 87.514 1.00 23.45	C
		CZ PHE D 379	11.295 82.029 86.575 1.00 23.02	С
		CE2 PHE D 379	12.451 82.678 86.131 1.00 23.17	C
		CD2 PHE D 379		C
		C PHE D 379	14.228 87.464 88.929 1.00 23.64	C
		O PHE D 379	13.606 88.431 88.457 1.00 24.39	Ō
		N SER D 380	15.422 87.579 89.528 1.00 23.56	N
		CA SER D 380	16.113 88.857 89.670 1.00 23.81	C
		CB SER D 380	16.723 88.941 91.061 1.00 24.08	Ċ
		OG SER D 380	15.890 88.308 92.019 1.00 22.99	Ö
		C SER D 380	17.217 89.047 88.623 1.00 24.40	C
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ATOM 1	13767	O SER D 380	18.147 88.229 88.549 1.00 24.34	Ο
		N ALA D 381	17.110 90.135 87.835 1.00 25.02	N
ATOM 1	13770		18.046 90.400 86.731 1.00 25.63	C
ATOM 1	13772	CB ALA D 381	17.350 91.257 85.629 1.00 25.63	C
		C ALA D 381	19.374 91.056 87.178 1.00 26.26	C
ATOM 1	13777	O ALA D 381	20.350 91.084 86.409 1.00 26.43	О
ATOM :	13778	N ASP D 382	19.423 91.565 88.413 1.00 27.15	N
ATOM :	13780	CA ASP D 382	20.661 92.158 88.963 1.00 27.84	C
ATOM	13782	CB ASP D 382	20.310 93.260 89.959 1.00 27.97	C
ATOM	13785	CG ASP D 382	20.075 92.717 91.336 1.00 29.48	C
ATOM	13786	OD1 ASP D 382	19.208 91.823 91.476 1.00 31.55	О
ATOM	13787	OD2 ASP D 382	20.729 93.085 92.335 1.00 31.34	О
		C ASP D 382	21.614 91.140 89.662 1.00 27.85	C
		O ASP D 382	22.545 91.529 90.450 1.00 28.22	O
		N ARG D 383	21.389 89.846 89.380 1.00 27.58	N
ATOM	13792	CA ARG D 383	22.362 88.816 89.740 1.00 27.32	C
ATOM	13794	CB ARG D 383	21.781 87.417 89.530 1.00 27.18	С
ATOM	13797	CG ARG D 383	20.517 87.169 90.283 1.00 26.76	C
		CD ARG D 383	20.626 87.429 91.759 1.00 25.16	C
ATOM	13803	NE ARG D 383	19.465 86.902 92.452 1.00 24.18	N
ATOM	13805	CZ ARG D 383	19.320 86.892 93.771 1.00 23.48	C
ATOM	13806	NH1 ARG D 383	20.267 87.391 94.558 1.00 23.07	N
ATOM	13809	NH2 ARG D 383	18.216 86.385 94.301 1.00 22.02	N
		C ARG D 383	23.615 88.962 88.867 1.00 27.18	C
		O ARG D 383	23.537 89.480 87.750 1.00 27.12	О
		N PRO D 384	24.769 88.528 89.384 1.00 27.23	N
		CA PRO D 384	25.991 88.459 88.564 1.00 26.91	С
		CB PRO D 384	27.082 88.032 89.559 1.00 26.93	С
		CG PRO D 384	26.338 87.410 90.730 1.00 27.27	C
		CD PRO D 384	24.989 88.072 90.778 1.00 27.08	C
		C PRO D 384	25.819 87.395 87.484 1.00 26.70	C
		O PRO D 384	25.138 86.387 87.752 1.00 26.88	О
		N ASN D 385	26.387 87.641 86.298 1.00 25.93	N
		CA ASN D 385	26.444 86.662 85.198 1.00 25.76	C
		CB ASN D 385	27.162 85.376 85.639 1.00 25.58	С
		CG ASN D 385	28.619 85.650 86.047 1.00 25.58	C
		OD1 ASN D 385	28.909 85.960 87.233 1.00 25.30	О
		ND2 ASN D 385	29.548 85.537 85.061 1.00 25.65	N
ATOM	13840	C ASN D 385	25.125 86.321 84.479 1.00 25.63	C
<b>ATOM</b>	13841	O ASN D 385	25.104 85.409 83.641 1.00 25.82	О
ATOM	13842	N VAL D 386	24.043 87.062 84.746 1.00 25.29	N
<b>ATOM</b>	13844	CA VALD 386	22.814 86.907 83.937 1.00 25.21	С
		CB VAL D 386	21.595 87.548 84.606 1.00 25.07	С
		CG1 VAL D 386	20.318 87.212 83.843 1.00 24.86	C
		CG2 VAL D 386	21.480 87.106 86.047 1.00 25.54	C
		C VAL D 386	22.988 87.590 82.559 1.00 25.15	C
ATOM	13857	O VAL D 386	23.303 88.783 82.506 1.00 24.96	0
ATOM"			22.750 86.850 81.467 1.00 25.13	N

ATOM 13860 CA GLN D 387	22.983 87.360 80.103 1.00 25.50	С
	23.606 86.270 79.227 1.00 25.28	C
ATOM 13865 CG GLN D 387		С
ATOM 13868 CD GLN D 387		С
	24.186 83.364 79.502 1.00 25.79	O
ATOM 13870 NE2 GLN D 387	25.012 83.997 81.559 1.00 26.40	N
ATOM 13873 C GLN D 387	21.742 87.918 79.384 1.00 25.83	C
ATOM 13874 O GLN D 387	21.878 88.634 78.386 1.00 25.87	0
ATOM 13875 N GLU D 388		N
ATOM 13877 CA GLID 388	19.297 88.098 79.290 1.00 26.42	C
	18.482 86.968 78.644 1.00 26.39	C
ATOM 13882 CG GLUD 388	19.135 86.340 77.418 1.00 26.40	Č
ATOM 13882 CD GLUD 388	18 706 84 896 77 202 1 00 26 62	Č
ATOM 13005 OF GLUD 300	18.706 84.896 77.202 1.00 26.62 19.006 84.039 78.077 1.00 27.22	Ö
ATOM 13887 OE2 GLU D 388	18.066 84.616 76.158 1.00 25.94	ŏ
	18.472 88.796 80.370 1.00 26.63	c
	17.370 88.341 80.704 1.00 26.74	ŏ
ATOM 13889 U GLUD 388	18.999 89.901 80.910 1.00 26.81	N
ATOM 13890 N PRO D 389	18.341 90.606 82.023 1.00 26.83	C
ATOM 13891 CA PROD 389	19.406 91.624 82.451 1.00 26.81	Č
ATOM 13893 CB PRO D 389	20.173 91.902 81.223 1.00 26.80	C
ATOM 13896 CG PRO D 389	20.230 90.596 80.485 1.00 26.85	C
ATOM 13899 CD PRO D 389		C
ATOM 13902 C PRO D 389	17.033 91.310 81.594 1.00 26.86	o
	16.163 91.514 82.464 1.00 27.20	N
ATOM 13904 N GLY D 390	16.904 91.668 80.294 1.00 27.13	C
	15.659 92.210 79.741 1.00 27.02	
ATOM 13909 C GLY D 390	14.529 91.193 79.814 1.00 27.23	С
ATOM 13910 O GLY D 390	13.395 91.551 80.170 1.00 27.97	O
ATOM 13911 N ARG D 391	14.846 89.916 79.515 1.00 26.99	N
ATOM 13913 CA ARG D 391	13.886 88.808 79.659 1.00 26.85	C
ATOM 13915 CB ARG D 391	14.278 87.645 78.736 1.00 26.79	C
	13.856 87.854 77.272 1.00 27.15	C
ATOM 13921 CD ARG D 391	14.356 86.794 76.294 1.00 27.09	C
	14.388 85.448 76.885 1.00 27.35	
	14.920 84.377 76.292 1.00 26.90	C
ATOM 13927 NH1 ARG D 391	15.463 84.468 75.072 1.00 26.64	N
ATOM 13930 NH2 ARG D 391	14.902 83.204 76.920 1.00 26.29	N
ATOM 13933 C ARG D 391	13.671 88.280 81.101 1.00 26.54	С
ATOM 13934 O ARG D 391	12.688 87.580 81.346 1.00 26.31	O
ATOM 13935 N VAL D 392	14.569 88.588 82.040 1.00 26.65	N
ATOM 13937 CA VAL D 392	14.401 88.137 83.448 1.00 26.73	C
ATOM 13939 CB VAL D 392	15.734 88.135 84.259 1.00 26.51	С
ATOM 13941 CG1 VAL D 392	15.490 88.062 85.798 1.00 27.06	С
ATOM 13945 CG2 VAL D 392	16.599 86.970 83.846 1.00 26.65	C
ATOM 13949 C VAL D 392	13.350 89.002 84.141 1.00 26.85	С
ATOM 13950 O VAL D 392	12.525 88.484 84.886 1.00 27.26	О
ATOM 13951 N GLU D 393	13.375 90.311 83.861 1.00 27.22	N
ATOM 13953 CA GLU D 393	12.383 91.267 84.364 1.00 27.21	C

ATOM 13955 CB GLU D 393	12.675 92.689 83.754 1.00 27.50	С
ATOM 13958 CG GLU D 393	11.466 93.539 83.301 1.00 27.64	С
ATOM 13961 CD GLU D 393	11.775 94.494 82.130 1.00 28.08	С
ATOM 13962 OE1 GLU D 393	11.975 94.032 80.968 1.00 28.18	0
ATOM 13963 OE2 GLU D 393	11.790 95.731 82.359 1.00 28.07	0
ATOM 13964 C GLU D 393	10.969 90.776 83.987 1.00 27.25	С
ATOM 13965 O GLU D 393	10.010 90.823 84.862 1.00 27.36	O
ATOM 13966 N ALA D 394	10.859 90.303 82.706 1.00 26.84	N
ATOM 13968 CA ALA D 394	9.551 89.967 82.113 1.00 26.90	C
ATOM 13970 CB ALA D 394	9.694 89.785 80.556 1.00 26.65	C
ATOM 13974 C ALA D 394	8.870 88.727 82.746 1.00 26.77	С
ATOM 13975 O ALA D 394		O
ATOM 13976 N LEU D 395	9.774 87.767 83.154 1.00 26.60	N
ATOM 13978 CA LEUD 395	9.333 86.545 83.824 1.00 26.66	С
ATOM 13980 CB LEU D 395	10.452 85.505 83.806 1.00 26.77	С
	10.912 85.050 82.424 1.00 26.79	C
ATOM 13985 CD1 LEU D 395	12.316 84.477 82.513 1.00 27.22	C
ATOM 13989 CD2 LEU D 395	9.942 84.033 81.850 1.00 27.09	C
ATOM 13993 C LEU D 395	8.912 86.845 85.283 1.00 26.49	C
ATOM 13994 O LEU D 395	7.991 86.214 85.839 1.00 26.38	Ο
ATOM 13995 N GLN D 396	9.580 87.829 85.881 1.00 26.22	N
ATOM 13997 CA GLN D 396	9.301 88.271 87.252 1.00 26.30	C
ATOM 13999 CB GLN D 396	10.475 89.114 87.767 1.00 25.98	C
ATOM 14002 CG GLN D 396		С
ATOM 14005 CD GLN D 396	11.449 90.611 89.590 1.00 24.18	С
ATOM 14006 OE1 GLN D 396	12.298 90.291 90.437 1.00 21.35	O
ATOM 14007 NE2 GLN D 396	11.449 91.797 88.947 1.00 21.28	N
ATOM 14010 C GLN D 396	8.003 89.088 87.354 1.00 26.61	C
ATOM 14011 O GLN D 396	7.320 89.018 88.380 1.00 26.42	O
ATOM 14012 N GLN D 397	7.670 89.843 86.289 1.00 26.64	N
	6.553 90.798 86.317 1.00 26.71	С
ATOM 14016 CB GLN D 397		С
ATOM 14019 CG GLN D 397		С
	6.983 94.187 85.067 1.00 26.83	С
ATOM 14023 OE1 GLN D 397	7.135 94.694 83.958 1.00 26.15	О
ATOM 14024 NE2 GLN D 397	7.696 94.551 86.137 1.00 26.63	N
ATOM 14027 C GLN D 397	5.185 90.133 86.519 1.00 26.73	С
ATOM 14028 O GLN D 397	4.417 90.588 87.358 1.00 26.66	О
ATOM 14029 N PRO D 398	4.856 89.091 85.750 1.00 26.78	N
ATOM 14030 CA PRO D 398	3.631 88.315 86.008 1.00 26.61	С
ATOM 14032 CB PRO D 398	3.774 87.115 85.071 1.00 26.74	С
ATOM 14035 CG PRO D 398	4.591 87.622 83.934 1.00 26.78	C
ATOM 14038 CD PRO D 398	5.573 88.578 84.563 1.00 26.84	C
ATOM 14041 C PRO D 398	3.504 87.830 87.448 1.00 26.29	C
ATOM 14042 O PRO D 398	2.415 87.949 88.004 1.00 26.09	О
ATOM 14043 N TYR D 399	4.584 87.302 88.029 1.00 26.04	N
ATOM 14045 CA TYR D 399	4.533 86.789 89.398 1.00 25.83	C
ATOM 14047 CB TYR D 399	5.810 86.029 89.765 1.00 25.70	С

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			5.965 84.786 88.928 1.00 26.07	С
ATOM	14051	CD1 TYR D 399	6.900 84.732 87.903 1.00 26.66	C
ATOM	14053	CE1 TYR D 399	7.039 83.601 87.104 1.00 26.67	C
ATOM	14055	CZ TYR D 399	6.226 82.506 87.322 1.00 26.59	С
		OH TYR D 399		О
		CE2 TYR D 399	5.274 82.532 88.338 1.00 26.51	С
		CD2 TYR D 399	5.144 83.677 89.130 1.00 26.33	С
		C TYR D 399	4.286 87.911 90.365 1.00 25.44	C
		O TYR D 399	3.615 87.710 91.377 1.00 26.13	O
-		N VAL D 400		N
			4.635 90.269 90.888 1.00 25.22	С
		CB VAL D 400	5.652 91.407 90.531 1.00 25.28	С
		CG1 VAL D 400	5.359 92.672 91.342 1.00 25.47	C
		CG2 VAL D 400	7.101 90.957 90.799 1.00 25.33	C
		C VAL D 400	3.170 90.751 90.794 1.00 24.85	С
		O VAL D 400		Ö
		N GLU D 401		N
			1.219 91.153 89.324 1.00 24.54	C
			0.950 91.243 87.821 1.00 24.93	Č
			1.589 92.435 87.120 1.00 25.22	Č
		CD GLU D 401	1.648 92.251 85.616 1.00 26.82	Č
		OEI GLU D 401	0.925 91.366 85.092 1.00 28.67	ō
		OE2 GLU D 401	2.411 92.988 84.949 1.00 27.86	ő
			0.176 90.182 89.918 1.00 24.23	c
		C GLU D 401	-1.003 90.581 90.290 1.00 25.03	ŏ
		O GLU D 401		N
		N ALA D 402	-0.117 87.820 90.670 1.00 23.74	C
		CA ALA D 402	0.489 86.490 90.270 1.00 22.65	C
		CB ALA D 402	-0.109 87.951 92.216 1.00 22.20	c
		C ALA D 402	-1.144 87.757 92.860 1.00 21.72	Ö
		O ALA D 402		N
			1.047 88.270 92.804 1.00 21.80	C
			1.153 88.378 94.275 1.00 21.69	C
ATOM	14109	CB LEU D 403	2.614 88.365 94.764 1.00 21.32	C
			2.877 88.644 96.263 1.00 20.59	C
		CD1 LEU D 403	2.174 87.643 97.193 1.00 19.48	C
		CD2 LEU D 403	4.374 88.685 96.553 1.00 19.77	
		C LEU D 403	0.460 89.643 94.768 1.00 21.92	C
		O LEU D 403	-0.014 89.687 95.903 1.00 21.96	0
		N LEU D 404	0.370 90.655 93.897 1.00 22.17	N
		CA LEU D 404	-0.155 91.953 94.316 1.00 22.36	C
		CB LEU D 404	0.215 93.045 93.303 1.00 21.86	C
		CG LEU D 404	-0.498 94.394 93.455 1.00 21.89	C
-		CD1 LEU D 404	-0.338 95.016 94.838 1.00 21.21	C
		CD2 LEU D 404	-0.009 95.367 92.391 1.00 22.61	C
		C LEU D 404	-1.665 91.875 94.510 1.00 22.77	C
-		O LEU D 404	-2.213 92.426 95.471 1.00 22.95	O
		N SER D 405	-2.328 91.181 93.587 1.00 23.38	N
ATOM	14145	CA SER D 405	-3.775 91.032 93.623 1.00 23.72	С

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			-4.296 90.563 92.261 1.00 23.64	С
		00 11	-4.049 91.544 91.265 1.00 23.54	О
		C SER D 405	-4.174 90.041 94.704 1.00 24.14	C
		O SER D 405	-5.198 90.211 95.360 1.00 24.22	Ο
		N TYR D 406	-3.367 89.005 94.878 1.00 24.67	N
		CA TYR D 406	-3.599 88.032 95.935 1.00 25.59	С
<b>ATOM</b>	14158	CB TYR D 406	-2.493 86.973 95.951 1.00 25.65	C
<b>ATOM</b>	14161	CG TYR D 406	-2.802 85.800 96.852 1.00 26.18	С
<b>ATOM</b>	14162		-3.641 84.777 96.425 1.00 27.08	С
<b>ATOM</b>	14164	CE1 TYR D 406	-3.934 83.698 97.246 1.00 27.03	С
<b>ATOM</b>	14166	CZ TYR D 406	-3.392 83.637 98.509 1.00 26.80	C.
ATOM	14167	OH TYR D 406	-3.685 82.570 99.320 1.00 26.96	Ο
ATOM	14169	CE2 TYR D 406	-2.565 84.645 98.962 1.00 27.03	С
ATOM	14171	CD2 TYR D 406	-2.274 85.718 98.132 1.00 26.61	C
		C TYR D 406	-3.682 88.684 97.324 1.00 26.22	С
		O TYR D 406	-4.589 88.364 98.090 1.00 26:36	Ο
		N THR D 407	-2.735 89.575 97.648 1.00 26.85	N
			-2.709 90.253 98.962 1.00 27.09	С
		CB THR D 407		С
			-0.995 91.848 98.186 1.00 25.68	О
		<b>CG2 THR D 407</b>	-0.209 89.952 99.274 1.00 27.05	С
		C THR D 407	-3.850 91.269 99.101 1.00 27.77	C
		O THR D 407	-4.240 91.621 100.219 1.00 27.85	Ο
		N ARG D 408	-4.371 91.741 97.970 1.00 28.43	N
			-5.540 92.624 97.963 1.00 29.05	С
			-5.687 93.316 96.611 1.00 29.01	С
		CG ARG D 408		C
		CD ARG D 408	-4.713 94.977 94.949 1.00 29.14	C
		NE ARG D 408	-5.018 96.400 94.821 1.00 28.56	N
		CZ ARG D 408		С
		NH1 ARG D 408	-3.165 97.124 96.013 1.00 30.30	N
	_	NH2 ARG D 408	-4.648 98.643 95.143 1.00 29.46	N
		C ARG D 408	-6.839 91.881 98.290 1.00 29.68	С
		O ARG D 408		0
			-6.898 90.586 97.972 1.00 30.33	N
		CA ILE D 409	-8.078 89.760 98.244 1.00 30.71	C
		<b>CB ILE D 409</b>	-8.316 88.743 97.089 1.00 30.70	С
		CG1 ILE D 409	-8.597 89.474 95.767 1.00 29.85	С
		CD1 ILE D 409	-8.176 88.693 94.548 1.00 28.92	С
-		CG2 ILE D 409	-9.487 87.800 97.408 1.00 30.58	С
			-7.967 89.042 99.597 1.00 31.33	С
			-8.972 88.799 100.253 1.00 31.40	O
		N LYS D 410	-6.755 88.705 100.023 1.00 32.21	N
-		CA LYS D 410	-6.568 88.131 101.354 1.00 32.89	C
		CB LYS D 410	-5.117 87.679 101.573 1.00 32.85	C
-		CG LYS D 410	-4.868 87.026 102.929 1.00 33.02	С
		CD LYS D 410	-3.689 86.066 102.900 1.00 32.61	С
		CE LYS D 410	-3.175 85.775 104.305 1.00 33.06	C
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		-1.844 85.100 104.288 1.00 32.45	N
ATOM 14252 C	C LYS D 410	-7.006 89.188 102,376 1.00 33.50	C
ATOM 14253 C	D LYS D 410	-8.127 89.120 102.904 1.00 33.65	Ο
ATOM 14254 N	N ARG D 411	-6.151 90.189 102.593 1.00 33.98	N
ATOM 14256 C	CA ARG D 411	-6.446 91.301 103.497 1.00 34.36	C
ATOM 14258 C		-5.413 91.354 104.636 1.00 34.63	С
ATOM 14261 C		-4.864 89.996 105.025 1.00 35.78	C
ATOM 14264 C		-4.140 89.958 106.357 1.00 37.58	C
ATOM 14267 N		-4.780 89.044 107.309 1.00 38.57	N
ATOM 14269 C		-4.145 88.358 108.266 1.00 39.14	C
ATOM 14270 N		-2.819 88.448 108.430 1.00 39.02	N
	NH2 ARG D 411	-4.851 87.567 109.071 1.00 38.86	N
ATOM 14276 C		-6.476 92.631 102.717 1.00 34.11	С
ATOM 14277 (		-5.430 93.253 102.501 1.00 34.15	O
ATOM 14278 N		-7.665 93.073 102.297 1.00 33.80	N
ATOM 14279 (		-7.804 94.381 101.635 1.00 33.58	С
ATOM 14281 (		-9.184 94.309 100.961 1.00 33.54	C
ATOM 14284 (	CG PRO D 412	-9.790 92.996 101.355 1.00 33.66	С
ATOM 14287 (		-8.960 92.385 102.430 1.00 33.77	С
ATOM 14290 (		-7.760 95.552 102.619 1.00 33.32	C
ATOM 14291 (		-7.917 96.697 102.195 1.00 33.47	O
ATOM 14292 N	N GLN D 413	-7.555 95.258 103.904 1.00 33.03	N
ATOM 14294 (	CA GLN D 413	-7.507 96.264 104.963 1.00 32.59	C
ATOM 14296 (		-8.324 95.793 106.182 1.00 32.65	С
ATOM 14299 (		-9.648 95.069 105.852 1.00 32.48	С
ATOM 14302 (		-10.850 96.000 105.790 1.00 32.38	С
	DE1 GLN D 413	-11.115 96.622 104.758 1.00 32.10	O
	NE2 GLN D 413	-11.587 96.084 106.891 1.00 32.01	N
ATOM 14307 (		-6.053 96.566 105.376 1.00 32.12	C
	O GLN D 413	-5.771 97.638 105.930 1.00 32.43	Ο
ATOM 14309 N		-5.143 95.627 105.111 1.00 30.97	N
		-3.724 95.823 105.377 1.00 30.31	С
	CB ASP D 414		С
ATOM 14316 (	CG ASP D 414	-1.724 94.844 106.639 1.00 30.71	C
	OD1 ASP D 414	-1.178 95.959 106.481 1.00 30.59	О
ATOM 14318 (		-1.053 93.950 107.193 1.00 33.64	Ο
ATOM 14319 (		-2.948 96.022 104.070 1.00 29.51	С
ATOM 14320 (	-	-2.345 95.079 103.543 1.00 29.27	Ο
ATOM 14321 1		-2.938 97.256 103.568 1.00 28.56	N
ATOM 14323 (		-2.243 97.566 102.312 1.00 27.98	C
ATOM 14325 (		-2.849 98.802 101.644 1.00 28.17	C
ATOM 14328 (		-2.454 98.939 100.165 1.00 29.01	С
ATOM 14331 (		-3.344 99.883 99.379 1.00 29.77	C
	OE1 GLN D 415	-3.842 100.880 99.915 1.00 30.21	Ο
= -	NE2 GLN D 415	-3.532 99.581 98.096 1.00 30.34	N
ATOM 14336 (		-0.725 97.757 102.438 1.00 27.08	C
ATOM 14337 (		-0.072 98.088 101.450 1.00 27.03	Ο
ATOM 14338 1		-0.164 97.568 103.633 1.00 26.01	N

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C 1.287 97.634 103.817 1.00 25.35 ATOM 14340 CA LEU D 416 ATOM 14342 CB LEU D 416 1.632 98.378 105.098 1.00 25.26 C 1.305 99.868 105.023 1.00 25.38 C ATOM 14345 CG LEU D 416 1.586 100.518 106.361 1.00 26.29 C ATOM 14347 CD1 LEU D 416 2.090 100.548 103.906 1.00 24.59 ATOM 14351 CD2 LEU D 416 C 1.916 96.251 103.846 1.00 24.93 C ATOM 14355 C LEU D 416 3.141 96.110 103.919 1.00 24.37 0 ATOM 14356 O LEU D 416 ATOM 14357 N ARG D 417 1.073 95,231 103.761 1.00 24.23 N 1.545 93.865 103.770 1.00 23.87 C ATOM 14359 CA ARG D 417 0.363 92.914 103.937 1.00 24.30 C ATOM 14361 CB ARG D 417 C ATOM 14364 CG ARG D 417 0.738 91.459 103.953 1.00 24.85 C ATOM 14367 CD ARG D 417 -0.239 90.589 103.143 1.00 26.32 0.067 89.191 103.357 1.00 25.65 N ATOM 14370 NE ARG D 417 C -0.120 88.563 104.500 1.00 25.52 ATOM 14372 CZ ARG D 417 ATOM 14373 NH1 ARG D 417 -0.653 89.179 105.543 1.00 24.86 N 0.224 87.292 104.601 1.00 27.39 N ATOM 14376 NH2 ARG D 417 2.322 93.557 102.490 1.00 22.58 C ATOM 14379 C ARG D 417 ATOM 14380 O ARG D 417 3.385 92.950 102.555 1.00 21.77 0 N 1.807 93.987 101.341 1.00 21.50 ATOM 14381 N PHE D 418  $\mathbf{C}$ 2.508 93.725 100.085 1.00 21.07 ATOM 14383 CA PHE D 418 C 1.691 94.131 98.860 1.00 20.69 ATOM 14385 CB PHE D 418 C 2.377 93.826 97.560 1.00 21.65 ATOM 14388 CG PHE D 418 C 2.880 92.551 97.306 1.00 22.82 ATOM 14389 CD1 PHE D 418 C 3.518 92.269 96.100 1.00 22.73 ATOM 14391 CEI PHE D 418 3.665 93.254 95.149 1.00 21.48 C ATOM 14393 CZ PHE D 418  $\mathbf{C}$ 3.186 94.526 95.397 1.00 20.67 ATOM 14395 CE2 PHE D 418 C 2.551 94.810 96.596 1.00 21.06 ATOM 14397 CD2 PHE D 418 3.922 94.336 100.030 1.00 20.35 C ATOM 14399 C PHE D 418 ATOM 14400 O PHE D 418 4.873 93.627 99.712 1.00 20.85 O ATOM 14401 N PRO D 419 4.081 95.623 100.325 1.00 19.44 N ATOM 14402 CA PRO D 419 5.415 96.222 100.322 1.00 19.00 C C 5.151 97.688 100.695 1.00 19.07 ATOM 14404 CB PRO D 419 3.708 97.920 100.399 1.00 19.03 C ATOM 14407 CG PRO D 419 C ATOM 14410 CD PRO D 419 3.045 96.620 100.659 1.00 19.88 ATOM 14413 C PRO D 419 6.323 95.564 101.338 1.00 18.70 C 7.491 95.422 101.075 1.00 18.25 O ATOM 14414 O PRO D 419 ATOM 14415 N ARG D 420 5.781 95.159 102.475 1.00 18.74 N C 6.570 94.525 103.509 1.00 19.10 ATOM 14417 CA ARG D 420 5.727 94.308 104.772 1.00 19.42 C ATOM 14419 CB ARG D 420 ATOM 14422 CG ARG D 420 5.610 95.531 105.690 1.00 21.39 C 5.506 95.171 107.174 1.00 24.71 C ATOM 14425 CD ARG D 420 5.136 96.302 108.027 1.00 25.99 ATOM 14428 NE ARG D 420 N ATOM 14430 CZ ARG D 420 3.894 96.654 108.327 1.00 27.35 C 2.846 95.988 107.837 1.00 28.76 N ATOM 14431 NH1 ARG D 420 N 3.692 97.691 109.124 1.00 28.38 ATOM 14434 NH2 ARG D 420 7.154 93.192 103.012 1.00 18.86 C ATOM 14437 C ARG D 420 8.284 92.845 103.339 1.00 18.33 0 ATOM 14438 O ARG D 420 6.382 92.461 102.216 1.00 18.99 N ATOM 14439 N MET D 421

ATOM 14441 CA MET D 421	6.832 91.199 101.635 1.00 19.13	С
ATOM 14443 CB MET D 421	5.700 90.531 100.862 1.00 19.64	С
ATOM 14446 CG MET D 421	4.783 89.695 101.721 1.00 20.31	С
ATOM 14449 SD MET D 421	3.336 89.252 100.764 1.00 21.27	S
ATOM 14450 CE MET D 421	3.750 87.736 100.250 1.00 21.18	С
ATOM 14454 C MET D 421	7.973 91.422 100.674 1.00 18.77	C
ATOM 14455 O MET D 421	8.883 90.618 100.605 1.00 18.22	Ö
ATOM 14456 N LEU D 422	7.900 92.503 99.914 1.00 18.49	N
ATOM 14458 CA LEU D 422	8.961 92.834 98.985 1.00 19.09	C
ATOM 14458 CA LEU D 422 ATOM 14460 CB LEU D 422	8.500 93.861 97.943 1.00 19.10	Č
ATOM 14460 CB LEU D 422	7.224 93.541 97.168 1.00 19.36	Č
ATOM 14465 CD1 LEU D 422	6.874 94.710 96.311 1.00 20.66	Č
ATOM 14469 CD2 LEU D 422	7.385 92.288 96.330 1.00 19.92	č
ATOM 14469 CD2 LEO D 422 ATOM 14473 C LEU D 422	10.165 93.360 99.745 1.00 19.29	c
	11.298 93.160 99.322 1.00 19.59	Ö
ATOM 14474 O LEU D 422		N
ATOM 14475 N MET D 423		C
ATOM 14477 CA MET D 423	11.037 94.491 101.714 1.00 20.09	C
	10.549 95.321 102.908 1.00 20.43 9.777 96.590 102.599 1.00 23.17	C
ATOM 14482 CG MET D 423		S
ATOM 14485 SD MET D 423	10.620 97.852 101.626 1.00 29.21	S C
	12.328 97.743 102.213 1.00 28.12	
ATOM 14490 C MET D 423	11.861 93.310 102.246 1.00 19.20	С
ATOM 14491 O MET D 423	13.019 93.459 102.573 1.00 18.48	0
ATOM 14492 N LYS D 424	11.260 92.137 102.313 1.00 19.52	N
ATOM 14494 CA LYS D 424	11.970 90.937 102.758 1.00 19.82	C
ATOM 14496 CB LYS D 424	10.984 89.863 103.164 1.00 20.40	C
ATOM 14499 CG LYS D 424	10.073 90.273 104.345 1.00 21.46	C
ATOM 14502 CD LYS D 424	10.796 90.295 105.693 1.00 24.24	C
ATOM 14505 CE LYS D 424	10.134 91.289 106.695 1.00 26.61	С
ATOM 14508 NZ LYS D 424	9.692 92.624 106.067 1.00 28.24	N
ATOM 14512 C LYS D 424		C
ATOM 14513 O LYS D 424		О
ATOM 14514 N LEU D 425	12.718 90.642 100.451 1.00 19.63	N
ATOM 14516 CA LEU D 425	13.709 90.377 99.398 1.00 19.13	С
ATOM 14518 CB LEU D 425	13.155 90.746 98.007 1.00 18.97	C
ATOM 14521 CG LEU D 425	11.926 90.004 97.484 1.00 18.90	C
ATOM 14523 CD1 LEU D 425	11.445 90.629 96.155 1.00 17.97	C
ATOM 14527 CD2 LEU D 425	12.229 88.521 97.335 1.00 18.45	С
ATOM 14531 C LEU D 425	14.997 91.170 99.605 1.00 18.76	С
ATOM 14532 O LEU D 425	16.080 90.714 99.259 1.00 18.22	Ο
ATOM 14533 N VAL D 426	14.852 92.383 100.117 1.00 18.84	N
ATOM 14535 CA VAL D 426	15.991 93.231 100.456 1.00 19.33	C
ATOM 14537 CB VAL D 426	15.564 94.666 100.888 1.00 19.58	C
ATOM 14539 CG1 VAL D 426	16.794 95.574 100.987 1.00 19.60	C
ATOM 14543 CG2 VAL D 426	14.524 95.278 99.903 1.00 19.48	С
ATOM 14547 C VAL D 426	16.766 92.612 101.609 1.00 19.51	C
ATOM 14548 O VAL D 426	17.999 92.603 101.612 1.00 19.27	Ο
ATOM 14549 N SER D 427	16.022 92.094 102.584 1.00 19.50	N
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ATOM 14551 CA SER D 427	16.618 91.452 103.728 1.00 19.64	С
ATOM 14553 CB SER D 427		С
ATOM 14556 OG SER D 427	14.918 92.226 105.261 1.00 18.68	O
ATOM 14558 C SER D 427	17.359 90.217 103.268 1.00 19.62	C
ATOM 14559 O SER D 427	18.460 89.960 103.731 1.00 19.71	Ö
ATOM 14560 N LEU D 428	16.768 89.461 102.350 1.00 19.60	Ň
ATOM 14562 CA LEU D 428	17.430 88.260 101.823 1.00 19.70	C
ATOM 14562 CA LEU D 428 ATOM 14564 CB LEU D 428	16.542 87.539 100.827 1.00 19.32	Č
ATOM 14567 CG LEU D 428	15.371 86.853 101.519 1.00 18.01	Č
ATOM 14567 CG LEO D 428 ATOM 14569 CD1 LEU D 428	14.341 86.450 100.519 1.00 19.67	C
ATOM 14509 CD1 LEG D 428 ATOM 14573 CD2 LEU D 428	15.845 85.662 102.306 1.00 17.49	č
	18.798 88.546 101.204 1.00 20.08	c
ATOM 14577 C LEU D 428	19.719 87.768 101.389 1.00 20.31	Ö
ATOM 14578 O LEU D 428		N
ATOM 14579 N ARG D 429	20.265 90.082 100.031 1.00 20.39	C
ATOM 14581 CA ARG D 429	20.182 91.347 99.198 1.00 21.37	C
ATOM 14583 CB ARG D 429	19.280 91.251 98.003 1.00 20.84	C
ATOM 14586 CG ARG D 429		C
	19.770 90.313 96.958 1.00 20.94	N
ATOM 14592 NE ARG D 429		C
ATOM 14594 CZ ARG D 429		
ATOM 14595 NH1 ARG D 429		N
ATOM 14598 NH2 ARG D 429		N
ATOM 14601 C ARG D 429	21.275 90.298 101.143 1.00 22.40	C
ATOM 14602 O ARG D 429	22.387 89.846 101.024 1.00 23.69	0
ATOM 14603 N THR D 430	20.904 90.979 102.221 1.00 23.30	N
ATOM 14605 CA THR D 430	21.838 91.236 103.329 1.00 23.82	C
ATOM 14607 CB THR D 430	21.180 92.171 104.395 1.00 23.63	C
ATOM 14609 OG1 THR D 430	21.223 93.537 103.948 1.00 24.57	O
ATOM 14611 CG2 THR D 430		C
ATOM 14615 C THR D 430	22.283 89.928 103.984 1.00 24.24	C
ATOM 14616 O THR D 430	23.434 89.762 104.364 1.00 24.96	О
ATOM 14617 N LEU D 431	21.341 89.014 104.117 1.00 24.61	N
ATOM 14619 CA LEU D 431	21.561 87.716 104.729 1.00 24.97	С
ATOM 14621 CB LEU D 431	20.213 87.008 104.856 1.00 24.72	С
ATOM 14624 CG LEU D 431	19.473 86.920 106.203 1.00 25.30	C
ATOM 14626 CD1 LEU D 431	20.058 87.755 107.324 1.00 25.42	С
ATOM 14630 CD2 LEU D 431	17.988 87.212 106.047 1.00 24.32	C
ATOM 14634 C LEU D 431	22.546 86.846 103.919 1.00 25.70	С
ATOM 14635 O LEU D 431	23.233 86.014 104.481 1.00 25.14	О
ATOM 14636 N SER D 432	22.603 87.060 102.602 1.00 26.94	N
ATOM 14638 CA SER D 432	23.599 86.436 101.735 1.00 27.75	C
ATOM 14640 CB SER D 432	23.347 86.779 100.264 1.00 27.96	C
ATOM 14643 OG SER D 432	22.562 85.771 99.649 1.00 29.47	O
ATOM 14645 C SER D 432	25.020 86.838 102.101 1.00 28.16	С
ATOM 14646 O SER D 432	25.918 85.998 102.101 1.00 28.43	·O
ATOM 14647 N SER D 433	25.241 88.112 102.403 1.00 28.31	N
ATOM 14649 CA SER D 433	26.575 88.527 102.835 1.00 28.49	C
ATOM 14651 CB SER D 433	26.699 90.042 102.796 1.00 28.45	C

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ATOM 14654 OG SER D 433	26.638 90.478 101.451 1.00 28.91	Ο
ATOM 14656 C SER D 433	26.950 87.959 104.216 1.00 28.47	С
ATOM 14657 O SER D 433	28.082 87.536 104.426 1.00 28.09	Ο
ATOM 14658 N VAL D 434	25.998 87.926 105.145 1.00 28.89	N
ATOM 14660 CA VAL D 434		С
ATOM 14662 CB VAL D 434	25.005 87.435 107.382 1.00 29.01	C
ATOM 14664 CG1 VAL D 434		C
ATOM 14668 CG2 VAL D 434		C
ATOM 14672 C VAL D 434	26,569 85.767 106.236 1.00 29.32	С
ATOM 14673 O VAL D 434	27.430 85.215 106.942 1.00 29.25	O
ATOM 14674 N HIS D 435	25.934 85.127 105.257 1.00 29.25	N
ATOM 14676 CA HIS D 435	26.223 83.725 104.984 1.00 29.62	С
ATOM 14678 CB HIS D 435	25.227 83.128 103.997 1.00 29.47	C
ATOM 14681 CG HIS D 435	25.667 81.818 103.432 1.00 30.09	С
ATOM 14682 ND1 HIS D 435	26.210 81.699 102.171 1.00 31.27	N
ATOM 14684 CE1 HIS D 435	26.515 80.434 101.946 1.00 32.03	C
ATOM 14686 NE2 HIS D 435	26.202 79.732 103.020 1.00 31.67	N
ATOM 14688 CD2 HIS D 435	25.669 80.574 103.963 1.00 30.51	C
ATOM 14690 C HIS D 435	27.654 83.563 104.460 1.00 29.81	С
ATOM 14691 O HIS D 435	28.359 82.645 104.865 1.00 29.40	Ō
ATOM 14692 N SER D 436	28.080 84.478 103.593 1.00 30.21	N
ATOM 14694 CA SER D 436	29.422 84.433 103.014 1.00 30.90	C
ATOM 14696 CB SER D 436	29.543 85.433 101.874 1.00 30.73	Č
ATOM 14699 OG SER D 436		Ō
ATOM 14701 C SER D 436	30.525 84.678 104.039 1.00 31.31	C
ATOM 14701 C SER D 436	31.659 84.236 103.846 1.00 31.66	Ö
ATOM 14702 O SER D 430 ATOM 14703 N GLU D 437		N
ATOM 14705 N GEO D 437		C
ATOM 14703 CA GLUD 437		Č
ATOM 14707 CB GLU D 437		Č
ATOM 14710 CG GLUD 437		Č
ATOM 14713 CD GLU D 437		Ŏ
ATOM 14714 OE1 GLO D 437		ŏ
ATOM 14713 OE2 GLO D 437	31.203 84.333 107.101 1.00 31.52	C
ATOM 14710 C GLU D 437	32.249 84.077 107.703 1.00 31.30	ŏ
ATOM 14717 O GLOD 437 ATOM 14718 N GLN D 438	30.109 83.569 107.183 1.00 31.14	N
ATOM 14718 N GEND 438		C
ATOM 14720 CA GLN D 438		Č
ATOM 14722 CB GEN D 438		Č
ATOM 14723 CO GLN D 438		Č
ATOM 14729 OEI GLN D 438		Ö
ATOM 14729 OET GEN D 438		N
ATOM 14730 RE2 GEN D 438	30.991 81.273 107.173 1.00 30.81	c
ATOM 14733 C GLN D 438	31.746 80.546 107.819 1.00 30.62	Ö
ATOM 14734 O GEN D 438 ATOM 14735 N VAL D 439	30.906 81.219 105.841 1.00 30.52	N
ATOM 14733 N VAL D 439 ATOM 14737 CA VAL D 439		C
ATOM 14737 CA VAL D 439 ATOM 14739 CB VAL D 439		C
ATOM 14739 CB VAL D 439 ATOM 14741 CG1 VAL D 439		C
ATOM 14/41 COL VALD 43	, 27.130 17.071 103.320 1.00 30.27	_

ATOM	14745	CG2 VAL D 439	31.684 81.193 102.687 1.00 31.23	C
ATOM	14749	C VAL D 439	33.222 80.606 105.182 1.00 30.44	C
		O VAL D 439	34.065 79.711 105.219 1.00 29.96	О
		N PHE D 440	33.534 81.899 105.276 1.00 30.38	N
		CA PHE D 440	34.904 82.361 105.518 1.00 30.41	C
		CB PHE D 440	35.013 83.866 105.270 1.00 30.44	С
		CG PHE D 440	36.393 84.311 104.877 1.00 30.67	C
		CD1 PHE D 440	36.805 84.243 103.550 1.00 30.83	C
		CE1 PHE D 440	38.082 84.648 103.176 1.00 31.37	C
		CZ PHE D 440	38.962 85.117 104.138 1.00 31.42	C
		CE2 PHE D 440	38.559 85.183 105.471 1.00 31.19	С
		CD2 PHE D 440	37.282 84.782 105.831 1.00 30.44	C
		C PHE D 440	35.401 82.033 106.936 1.00 30.45	C
		O PHE D 440	36.591 81.805 107.147 1.00 29.95	Ο
		N ALA D 441	34.478 82.015 107.898 1.00 30.73	N
		CA ALA D 441	34.781 81.635 109.285 1.00 30.85	C
		CB ALA D 441	33.634 82.049 110.209 1.00 30.85	C
		C ALA D 441	35.053 80.133 109.441 1.00 30.94	С
		O ALA D 441	35.767 79.727 110.356 1.00 30.83	О
ATOM	14781	N LEU D 442	34.467 79.315 108.565 1.00 31.13	N
		CA LEU D 442	34.731 77.873 108.555 1.00 31.31	C
ATOM	14785	CB LEU D 442	33.725 77.135 107.664 1.00 31.20	C
		CG LEU D 442	32.238 77.265 108.022 1.00 30.88	С
ATOM	14790	CD1 LEU D 442	31.386 76.727 106.887 1.00 30.89	C
ATOM	14794	CD2 LEU D 442	31.890 76.563 109.330 1.00 30.24	C
ATOM	14798	C LEU D 442	36.158 77.592 108.071 1.00 31.51	С
<b>ATOM</b>	14799	O LEU D 442	36.813 76.673 108.564 1.00 31.53	О
ATOM	14800	N ARG D 443	36.628 78.398 107.116 1.00 31.71	N
ATOM	14802	CA ARG D 443	37.975 78.262 106.561 1.00 31.95	С
		CB ARG D 443	38.206 79.267 105.420 1.00 31.99	С
ATOM	14807	CG ARG D 443	37.193 79.183 104.280 1.00 31.97	C
ATOM	14810	CD ARG D 443	37.816 79.070 102.902 1.00 32.22	C
ATOM	14813	NE ARG D 443	38.495 77.785 102.709 1.00 32.12	N
ATOM	14815	CZ ARG D 443	38.678 77.178 101.533 1.00 31.98	С
ATOM	14816	NH1 ARG D 443	38.243 77.723 100.398 1.00 31.78	N
ATOM	14819	NH2 ARG D 443	39.307 76.008 101.492 1.00 32.13	N
		C ARG D 443	39.056 78.451 107.628 1.00 32.19	C
ATOM	14823	O ARG D 443	39.853 77.538 107.877 1.00 32.10	О
ATOM	14824	N LEU D 444	39.072 79.635 108.246 1.00 32.28	N
-		CA LEU D 444	40.090 80.001 109.235 1.00 32.40	C
		CB LEU D 444	41.001 81.122 108.692 1.00 32.38	С
-		CG LEU D 444	42.329 80.722 108.016 1.00 32.37	C
		CD1 LEU D 444	42.378 81.192 106.562 1.00 32.45	C
		CD2 LEU D 444	43.551 81.254 108.782 1.00 31.94	C
		C LEU D 444	39.412 80.446 110.529 1.00 32.42	C
		O LEU D 444	38.555 79.740 111.067 1.00 32.44	0
-		N LYS D 448	34.947 72.050 107.030 1.00 34.64	N
ATOM	14845	CA LYS D 448	34.907 71.929 105.578 1.00 34.99	С

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36.021 70.996 105.093 1.00 35.07 ATOM 14847 CB LYS D 448 C C 36.561 71.335 103.697 1.00 35.46 ATOM 14850 CG LYS D 448 ATOM 14853 CD LYS D 448 38.021 70.913 103.507 1.00 35.52 C ATOM 14856 CE LYS D 448 38.782 71.888 102.613 1.00 35.75 C ATOM 14859 NZ LYS D 448 N 38.790 73.273 103.170 1.00 35.45 ATOM 14863 C LYS D 448 33.545 71.424 105.087 1.00 35.13 C 32.897 70.608 105.753 1.00 34.83 O ATOM 14864 O LYS D 448 33.141 71.901 103.905 1.00 35.26 N ATOM 14865 N LEU D 449 ATOM 14867 CA LEU D 449 31.821 71.627 103.330 1.00 35.21  $\mathbf{C}$ 31.285 72.871 102.618 1.00 35.38  $\mathbf{C}$ ATOM 14869 CB LEU D 449 C 30.930 74.105 103.453 1.00 35.63 ATOM 14872 CG LEU D 449 C ATOM 14874 CD1 LEU D 449 32.179 74.874 103.879 1.00 35.69 ATOM 14878 CD2 LEU D 449 30.001 75.006 102.658 1.00 35.86  $\mathbf{C}$ 31.847 70.479 102.314 1.00 34.98  $\mathbf{C}$ ATOM 14882 C LEU D 449 O 32.843 70.282 101.624 1.00 35.07 ATOM 14883 O LEU D 449 N ATOM 14884 N PRO D 450 30.743 69.741 102.210 1.00 34.76 30.616 68.660 101.228 1.00 34.77 C ATOM 14885 CA PRO D 450 C ATOM 14887 CB PRO D 450 29.351 67.927 101.682 1.00 34.69 28.564 68.941 102.379 1.00 34.66 C ATOM 14890 CG PRO D 450 C ATOM 14893 CD PRO D 450 29.526 69.877 103.025 1.00 34.64 30.461 69.206 99.805 1.00 34.79 ATOM 14896 C PRO D 450 C 30.167 70.400 99.685 1.00 34.49 O ATOM 14897 O PRO D 450 30.619 68.360 98.773 1.00 34.72 Ν ATOM 14898 N PRO D 451 30.835 68.818 97.384 1.00 34.70  $\mathbf{C}$ ATOM 14899 CA PRO D 451  $\mathbf{C}$ 31.029 67.504 96.597 1.00 34.62 ATOM 14901 CB PRO D 451 31.349 66.471 97.617 1.00 34.64 C ATOM 14904 CG PRO D 451  $\mathbf{C}$ 30.599 66.886 98.858 1.00 34.77 ATOM 14907 CD PRO D 451 C 29.720 69.669 96.734 1.00 34.74 ATOM 14910 C PRO D 451 30.038 70.702 96.133 1.00 34.68 O ATOM 14911 O PRO D 451 N ATOM 14912 N LEU D 452 28.460 69.242 96.835 1.00 34.79 27.345 69.976 96.214 1.00 34.88 C ATOM 14914 CA LEU D 452 26.040 69.161 96.309 1.00 34.89  $\mathbf{C}$ ATOM 14916 CB LEU D 452 C 24.684 69.814 95.969 1.00 35.02 ATOM 14919 CG LEU D 452 24.629 70.474 94.591 1.00 34.55 C ATOM 14921 CD1 LEU D 452 23.592 68.757 96.069 1.00 35.62 C ATOM 14925 CD2 LEU D 452 ATOM 14929 C LEU D 452 27.148 71.405 96.770 1.00 34.94 C 26.815 72.318 96.016 1.00 34.78 0 ATOM 14930 O LEU D 452 ATOM 14931 N LEU D 453 27.347 71.592 98.077 1.00 35.18 N ATOM 14933 CA LEU D 453 27.282 72.926 98.700 1.00 35.02 C C 27.171 72.820 100.224 1.00 34.90 ATOM 14935 CB LEU D 453 ATOM 14938 CG LEU D 453 26.136 71.864 100.796 1.00 34.34 C 26.089 71.983 102.308 1.00 33.70 C ATOM 14940 CD1 LEU D 453 24.790 72.163 100.175 1.00 34.72 C ATOM 14944 CD2 LEU D 453 ATOM 14948 C LEU D 453 28.537 73.723 98.376 1.00 35.40 C 28.492 74.945 98.240 1.00 35.08 0 ATOM 14949 O LEU D 453 N ATOM 14950 N SER D 454 29.655 73.008 98.254 1.00 35.96 30.975 73.616 98.087 1.00 36.46  $\mathbf{C}$ ATOM 14952 CA SER D 454 32.071 72.577 98.372 1.00 36.43  $\mathbf{C}$ ATOM 14954 CB SER D 454

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ATOM 14957 OG SER D 454	33.361 73.123 98.171 1.00 36.10	О	•
ATOM 14959 C SER D 454		C	
ATOM 14960 O SER D 454		0	
	30.381 74.042 95.718 1.00 37.37	N	
ATOM 14963 CA GLU D 455	30.544 74.722 94.422 1.00 37.88	С	
ATOM 14965 CB GLU D 455	30.527 73.727 93.254 1.00 37.89	С	
ATOM 14968 CG GLU D 455	31.835 73.692 92.452 1.00 37.95	С	
ATOM 14971 CD GLUD 455	31.982 74.834 91.444 1.00 37.79	С	
ATOM 14971 OF GLUD 455	33.081 74.967 90.855 1.00 36.77	0	
ATOM 14972 OET GEUD 455	31.013 75.598 91.230 1.00 37.92	Ö	
ATOM 14974 C GLU D 455		C	
ATOM 14974 C GLUD 455	29.726 76.754 93.437 1.00 38.43	0	
ATOM 14975 O GEO D 455	28.377 75.706 94.908 1.00 38.61	N	
	27.346 76.730 94.861 1.00 39.00	C	
ATOM 14978 CA ILL D 456	25.980 76.133 95.311 1.00 39.07	Č	
ATOM 14980 CB ILL D 456	25.531 75.080 94.287 1.00 39.36	C	
ATOM 14982 COLUED 456	24.069 74.671 94.366 1.00 39.58	č	
ATOM 14983 CDI ILE D 456	24.910 77.214 95.447 1.00 39.38	C	
	27.761 77.939 95.700 1.00 39.21	c	
	27.422 79.077 95.358 1.00 39.19	0	
ATOM 14994 U ILE D 450	20 520 77 600 06 760 1 00 39.19	N	
	28.520 77.698 96.769 1.00 39.54	C	
	28.857 78.749 97.741 1.00 39.76	C	
ATOM 14999 CB TRP D 457	28.281 78.414 99.113 1.00 39.62	C	
ATOM 15002 CG TRP D 457	26.820 78.269 99.108 1.00 38.92	C	
ATOM 15003 CD1 TRP D 457	25.927 78.926 98.312 1.00 38.56		
ATOM 15005 NEI TRP D 457	24.648 78.519 98.601 1.00 39.10	N	
ATOM 15007 CE2 TRP D 457	24.701 77.589 99.605 1.00 38.98	C	
	26.059 77.407 99.941 1.00 38.91	С	
ATOM 15009 CE3 TRP D 457		C	
ATOM 15011 CZ3 TRP D 457		C	
	24.029 76.010 101.215 1.00 39.88	C	
	23.677 76.895 100.232 1.00 39.05	С	
ATOM 15017 C TRP D 457		С	
ATOM 15018 O TRP D 457	30.725 80.152 98.223 1.00 40.26	0	
ATOM 15019 N ASP D 458	31.178 78.001 97.719 1.00 40.77	N	
ATOM 15021 CA ASP D 458	32.626 78.189 97.802 1.00 41.23	С	
ATOM 15023 CB ASP D 458	33.326 76.921 98.334 1.00 41.27	C	
ATOM 15026 CG ASP D 458	34.181 77.191 99.564 1.00 41.37	С	
ATOM 15027 OD1 ASP D 458	35.428 77.195 99.444 1.00 41.88	О	
ATOM 15028 OD2 ASP D 458	33.692 77.399 100.692 1.00 40.74	0	
ATOM 15029 C ASP D 458	33.182 78.632 96.438 1.00 41.54	С	
ATOM 15030 O ASP D 458	34.243 78.182 96.015 1.00 41.72	0	
ATOM 15031 N VAL D 459	32.450 79.516 95.756 1.00 41.97	N	
ATOM 15033 CA VAL D 459	32.975 80.218 94.588 1.00 42.46	С	
ATOM 15035 CB VAL D 459	31.942 81.206 93.928 1.00 42.53	С	
ATOM 15037 CG1 VAL D 459	32.298 81.438 92.446 1.00 42.39	C	
ATOM 15041 CG2 VAL D 459		C	
ATOM 15045 C VAL D 459	34.197 81.015 95.067 1.00 42.82	С	

ATOM 1	5046	O VAL D 459	35.252 81.026 94.402 1.00 42.59	Ο
		N ALA D 460	34.026 81.664 96.228 1.00 43.00	N
ATOM 1	5049	CA ALA D 460	35.110 82.301 96.978 1.00 43.14	С
ATOM 1	5051	CB ALA D 460	35.816 81.264 97.854 1.00 43.11	С
		C ALA D 460	36.121 83.020 96.079 1.00 43.30	C
		O ALA D 460	35.747 83.832 95.227 1.00 43.57	O
		O37 GW3 D 500	13.548 70.869 105.884 1.00 16.41	Ο
		C35 GW3 D 500	13.232 70.601 104.723 1.00 16.39	C
		O36 GW3 D 500	12.236 69.888 104.451 1.00 15.82	Ο
		C34 GW3 D 500	14.080 71.074 103.567 1.00 17.86	С
		C32 GW3 D 500	15.021 72.154 104.070 1.00 16.05	С
		C33 GW3 D 500	16.253 71.826 104.636 1.00 18.02	C
		C31 GW3 D 500	14.616 73.476 104.054 1.00 15.89	С
		C30 GW3 D 500	15.423 74.480 104.587 1.00 17.32	С
		C29 GW3 D 500	16.648 74.153 105.166 1.00 17.58	C
		C28 GW3 D 500	17.060 72.823 105.192 1.00 18.10	Ċ
		O27 GW3 D 500	18.283 72.474 105.720 1.00 19.56	. 0
		C26 GW3 D 500	18.704 72.905 107.021 1.00 20.06	Ĉ
		C25 GW3 D 500	19.806 73.952 106.982 1.00 18.98	Č
		C17 GW3 D 500	20.478 73.970 108.355 1.00 18.31	Č
		N09 GW3 D 500	21.606 74.885 108.246 1.00 19.97	N
		C16 GW3 D 500	22.784 74.316 107.594 1.00 24.93	C
		C18 GW3 D 500	23.430 75.263 106.611 1.00 30.42	Č
		C19 GW3 D 500	24.890 75.368 106.619 1.00 35.20	C
		CL4 GW3 D 500	25.828 74.361 107.749 1.00 47.85	CL
		C23 GW3 D 500	22.720 76.043 105.720 1.00 30.51	C
			23.392 76.905 104.852 1.00 31.39	Č
		C22 GW3 D 500	24.778 77.026 104.837 1.00 33.11	Č
		C21 GW3 D 500	25.567 76.275 105.690 1.00 36.39	C
		C20 GW3 D 500	27.070 76.362 105.735 1.00 39.23	C
		C39 GW3 D 500	27.358 77.126 106.788 1.00 39.59	F
		F41 GW3 D 500		F
		F40 GW3 D 500	27.575 76.876 104.610 1.00 41.53	F
		F42 GW3 D 500	27.580 75.145 105.918 1.00 39.38	
		C08 GW3 D 500	21.717 76.170 108.940 1.00 17.07	C
		C07 GW3 D 500	20.438 77.064 108.875 1.00 16.36	C
		C01 GW3 D 500	20.374 77.962 110.062 1.00 11.02	C C
		C02 GW3 D 500	21.519 78.494 110.615 1.00 10.22	
		C03 GW3 D 500	21.426 79.284 111.743 1.00 12.67	C
		C04 GW3 D 500	20.203 79.550 112.321 1.00 10.69	C
		C05 GW3 D 500	19.072 79.006 111.767 1.00 11.38	C
		C06 GW3 D 500	19.151 78.212 110.639 1.00 9.62	C
		C10 GW3 D 500	20.374 77.856 107.634 1.00 14.02	C
		C11 GW3 D 500	19.252 77.742 106.835 1.00 14.79	C
		C12 GW3 D 500	19.178 78.464 105.639 1.00 15.98	C
		C13 GW3 D 500	20.230 79.295 105.247 1.00 15.10	C
_		C14 GW3 D 500	21.350 79.408 106.057 1.00 16.14	C
		C15 GW3 D 500	21.419 78.684 107.256 1.00 15.70	C
ATOM 1	15128	OH2 HOH X 1	18.790 0.840 49.638 1.00 22.14	О

ATOM	15131	он2 нон х	2	4.938 10.777 59.364 1.00 37.13	Ο
ATOM	15134	он2 нон х	3	18.192 16.160 44.592 1.00 37.55	Ο
ATOM	15137	он2 нон х	4	17.987 8.850 28.963 1.00 27.85	O
ATOM	15140	он2 нон х	5	40.090 11.660 53.242 1.00 30.61	Ο
ATOM	15143	он2 нон х	6	2.908 108.597 106.139 1.00 26.43	О
		он2 нон х	7	14.579 16.383 31.965 1.00 21.09	O
		он2 нон х	8	27.923 32.560 63.897 1.00 26.46	O
		он2 нон х		18.516 103.152 118.880 1.00 46.43	O
		он2 нон х		35.600 11.075 53.954 1.00 35.17	O
		он2 нон х		17.891 86.433 116.773 1.00 28.72	О
		он2 нон х		20.659 102.067 106.686 1.00 39.04	О
		он2 нон х		6.255 5.594 60.601 1.00 35.66	O
		ОН2 НОН X		12.446 10.305 34.580 1.00 33.82	0
		ОН2 НОН X		21.905 103.033 119.421 1.00 46.04	O
		ОН2 НОН X		15.495 79.869 119.859 1.00 27.60	O
		ОН2 НОН X		22.863 11.320 39.642 1.00 41.61	O
		OH2 HOH X		8.709 0.631 56.792 1.00 38.76	0
		OH2 HOH X		7.037 9.215 65.433 1.00 43.83	Ō
	-	OH2 HOH X		54.635 7.068 56.437 1.00 41.98	O
		OH2 HOH X		42.480 26.500 64.819 1.00 41.55	O
		OH2 HOH X		8.305 5.264 32.612 1.00 41.61	0
		OH2 HOH X		23.420 -0.054 51.116 1.00 34.49	O
		OH2 HOH X		37.247 30.829 49.611 1.00 33.54	Ō
		OH2 HOH X		15.797 113.527 113.002 1.00 44.57	O
		OH2 HOH X		16.914 8.250 46.298 1.00 32.98	o
-		OH2 HOH X		24.058 37.767 62.019 1.00 46.39	Ō
		OH2 HOH X		7.479 85.903 114.822 1.00 38.76	Ö
		OH2 HOH X		-0.801 10.033 48.373 1.00 28.12	Ö
		OH2 HOH X		25.359 6.806 37.379 1.00 44.68	Ö
		OH2 HOH X		26.245 22.106 65.105 1.00 44.09	Ö
		OH2 HOH X		3.043 26.213 48.170 1.00 39.25	o
		OH2 HOH X		14.270 108.533 121.439 1.00 45.88	O
		OH2 HOH X		25.897 99.315 110.080 1.00 49.71	ŏ
		OH2 HOH X		39.275 38.100 54.172 1.00 34.47	ŏ
		OH2 HOH X		12.488 90.316 114.086 1.00 30.18	Õ
		OH2 HOH X		13.583 83.713 117.672 1.00 24.50	Ö
		OH2 HOH X		7.331 87.765 116.864 1.00 38.02	Ö
•		OH2 HOH X		40.322 4.034 51.416 1.00 45.41	o
		OH2 HOH X		38.097 9.828 60.620 1.00 32.43	ŏ
		OH2 HOH X		19.891 15.332 48.107 1.00 51.05	Ö
		OH2 HOH X		35.963 16.094 59.088 1.00 27.23	Ö
		OH2 HOH X		22.170 4.237 49.614 1.00 41.38	ŏ
		OH2 HOH X		16.930 1.886 36.884 1.00 29.31	ŏ
		OH2 HOH X		20.557 2.022 40.300 1.00 34.55	Ö
		OH2 HOH X		8.116 2.675 58.430 1.00 37.39	Õ
		OH2 HOH X		6.631 23.602 49.344 1.00 33.65	O
		OH2 HOH X		29.292 18.080 63.496 1.00 41.30	Ö
		OH2 HOH X		21.029 10.754 52.135 1.00 28.27	ŏ
W I OIAI	13414	0112 11011 A	マノ	21.027 10.731 32.133 1.00 40.27	•

ATOM 15275	OH2 HOH X 5	0 40.045	7.948 61.610 1.00 39.89	Ο
	он2 нон х 5		15.117 54.039 1.00 32.35	О
	OH2 HOH X 5		6.030 36.466 1.00 44.52	O
	OH2 HOH X 5		104.932 109.683 1.00 43.95	0
	OH2 HOH X 5			Ο
	OH2 HOH X		10.370 57.122 1.00 38.57	0
	OH2 HOH X		83.678 100.088 1.00 57.88	0
	OH2 HOH X 5		-4.925 44.017 1.00 68.59	o
	OH2 HOH X 5		0.015 62.950 1.00 33.01	o
	OH2 HOH X 5		0.929 49.329 1.00 35.86	Ö
	OH2 HOH X		80.836 97.026 1.00 44.93	O
	OH2 HOH X		9.351 53.248 1.00 38.17	o
	OH2 HOH X		9.718 42.821 1.00 32.45	Ö
	OH2 HOH X 6		10.732 50.027 1.00 36.65	Ő
			1.123 39.091 1.00 35.93	ő
	OH2 HOH X		16.456 71.109 1.00 34.41	O
	OH2 HOH X		12.477 50.045 1.00 35.67	Ö
	OH2 HOH X		81.137 115.138 1.00 57.79	0
	OH2 HOH X			0
	OH2 HOH X		26.691 60.440 1.00 43.05	0
	OH2 HOH X		99.115 108.556 1.00 50.21	
	OH2 HOH X		0.913 39.567 1.00 55.13	0
•	OH2 HOH X		0.230 51.503 1.00 41.75	0
	он2 нон х		15.438 73.923 1.00 43.62	0
	он2 нон х	•	35.582 45.322 1.00 59.46	0
	OH2 HOH X		-5.001 74.941 1.00 48.52	O
	OH2 HOH X		79.241 122.471 1.00 33.27	0
	OH2 HOH X		9.989 50.713 1.00 35.08	O
	OH2 HOH X		122.362 104.765 1.00 53.58	0
	OH2 HOH X		5.694 54.544 1.00 51.46	О
ATOM 15362	OH2 HOH X	-	28.542 44.653 1.00 46.33	О
ATOM 15365	OH2 HOH X 8		61.732 102.489 1.00 56.97	О
ATOM 15368	OH2 HOH X 8		100.646 95.162 1.00 58.22	0
ATOM 15371	OH2 HOH X 8	32 47.472	-0.901 51.679 1.00 71.44	О
ATOM 15374	он2 нон х	33 14.125	61.063 100.439 1.00 69.04	О
	OH2 HOH X 8		16.118 56.622 1.00 31.88	O
ATOM 15380	он2 нон х 8	35 48.226	19.437 66.814 1.00 59.42	О
	он2 нон х 8		5.437 65.636 1.00 49.75	Ο
	он2 нон х 8		94.595 120.054 1.00 44.08	О
	он2 нон х		26.765 48.129 1.00 47.47	Ο
	он2 нон х		31.378 62.592 1.00 44.61	0
	OH2 HOH X		15.965 46.909 1.00 48.82	O
• - · - ·	OH2 HOH X		29.369 43.701 1.00 54.42	0
	OH2 HOH X		77.153 110.860 1.00 51.64	O
	OH2 HOH X		17.406 46.849 1.00 40.89	ŏ
	OH2 HOH X		25.863 52.532 1.00 65.87	Ö
	OH2 HOH X		85.178 115.055 1.00 47.96	Ö
-	OH2 HOH X		19.957 47.655 1.00 59.57	ŏ
	OH2 HOH X		32.993 66.183 1.00 36.27	O
WICKI 12410	OLIZ HOLLA	27.100	32.773 00.103 1.00 30.27	•

			14.955 25.599 61.997 1.00 58.33	O
ATOM	15422	OH2 HOH X 99	38.131 8.445 58.231 1.00 35.80	О
ATOM	15425	OH2 HOH X 100	26.311 7.055 62.966 1.00 42.34	O
		OH2 HOH X 101	-0.177 6.206 43.909 1.00 42.96	О
ATOM	15431	OH2 HOH X 102	35.146 74.240 103.309 1.00 64.14	О
ATOM	15434	OH2 HOH X 103	30.052 5.476 40.804 1.00 60.77	O
ATOM	15437	OH2 HOH X 104	10.184 12.725 34.015 1.00 51.28	O
ATOM	15440	OH2 HOH X 105	50.966 22.574 48.701 1.00 42.22	0
<b>ATOM</b>	15443	OH2 HOH X 106	2.828 11.507 41.214 1.00 52.52	Ο
ATOM	15446	OH2 HOH X 107	0.946 27.042 58.798 1.00 58.46	O
<b>ATOM</b>	15449	OH2 HOH X 108	30.446 27.155 42.836 1.00 51.90	О
ATOM	15452	OH2 HOH X 109	36.763 7.541 31.764 1.00 62.01	Ο
ATOM	15455	OH2 HOH X 110	13.380 98.632 108.720 1.00 37.74	О
			20.449 4.213 42.272 1.00 35.49	Ο
ATOM	15461	OH2 HOH X 112	37.312 38.390 53.133 1.00 51.36	O
ATOM	15464	OH2 HOH X 113	19.000 10.393 72.193 1.00 50.84	O
ATOM	15467	OH2 HOH X 114	17.903 84.774 91.200 1.00 60.01	О
			18.055 -1.585 39.255 1.00 56.00	Ο
			3.996 6.993 60.999 1.00 49.86	O
		OH2 HOH X 117	20.271 10.535 30.631 1.00 42.61	O
		OH2 HOH X 118		0
		OH2 HOH X 119		0
		OH2 HOH X 120	29.885 -23.535 52.934 1.00 77.91	O
		OH2 HOH X 121	-2.616 7.551 45.678 1.00 47.99	O
		OH2 HOH X 122	-2.824 10.741 58.817 1.00 42.09	O
		OH2 HOH X 123	26.639 111.044 114.619 1.00 57.82	O
-		OH2 HOH X 124	16.140 88.966 97.087 1.00 57.17	O
			17.235 127.107 106.446 1.00 53.73	0
			21.952 2.395 44.236 1.00 42.93	O
			9.277 74.512 114.665 1.00 48.97	O
		OH2 HOH X 128		0
ATOM	15512	OH2 HOH X 129	1.510 120.767 105.909 1.00 50.36	0
		OH2 HOH X 130		0
			15.242 61.390 105.392 1.00 59.52	O
		OH2 HOH X 132	-7.813 16.881 54.110 1.00 54.24	0
-		OH2 HOH X 133	39.761 32.790 49.685 1.00 50.24	O
		OH2 HOH X 134	5.502 102.442 113.079 1.00 54.03	0
		OH2 HOH X 135	5.245 83.800 107.181 1.00 56.11	0
		OH2 HOH X 136	9.888 -10.585 68.838 1.00 62.25	0
-		OH2 HOH X 137	18.053 89.757 110.269 1.00 57.84	O
		OH2 HOH X 138	20.049 122.164 106.270 1.00 69.14	O
		OH2 HOH X 139	2.434 9.115 59.663 1.00 48.87	O
		OH2 HOH X 140	29.074 7.062 34.979 1.00 61.08	Ö
-		OH2 HOH X 141	15.999 19.969 68.679 1.00 54.12	Ö
-		OH2 HOH X 141	7.714 17.165 68.472 1.00 60.71	ŏ
•		OH2 HOH X 143	4.115 13.818 66.067 1.00 59.59	ŏ
-		OH2 HOH X 144	50.125 11.901 55.483 1.00 48.36	ŏ
_		OH2 HOH X 145	14.393 30.385 44.476 1.00 57.65	ŏ
VI OW	12300	OLIZ HOH A 143	11.00 JUIJO 14.41 D 1.00 JUIJO	•

ATOM 15563 OH2 HOH	I X 146 2.986	-16.653 58.015	1.00 54.32	O
<b>ATOM 15566 OH2 HOH</b>	I X 147 13.508	77.817 123.053	1.00 47.73	Ο
<b>ATOM 15569 OH2 HOH</b>	I X 148 30.902	2 -8.372 64.994	1.00 57.51	Ο
<b>ATOM 15572 OH2 HOH</b>	I X 149 21.360	40.987 59.280	1.00 61.05	О
ATOM 15575 OH2 HOH	IX 150 31.566	0.933 61.366	1.00 47.84	O
ATOM 15578 OH2 HOH	IX 151 25.717	98.206 123.290	1.00 56.66	Ο
<b>ATOM 15581 OH2 HOH</b>	I X 152 24.279	0.340 77.562	1.00 58.47	O
ATOM 15584 OH2 HOH	X 153 47.547	-0.197 46.911	1.00 58.77	Ο
<b>ATOM 15587 OH2 HOH</b>	IX 154 13.581	28.505 62.736	1.00 55.78	Ο
ATOM 15590 OH2 HOH	IX 155 15.868	67.635 118.108	1.00 63.74	О
ATOM 15593 OH2 HOH	I X 156 6.738	99.064 109.444	1.00 66.64	Ο
ATOM 15596 OH2 HOH	IX 157 39.958	7.874 54.949	1.00 63.85	Ο
ATOM 15599 OH2 HOH	X 158 7.403	91.557 109.576	1.00 55.77	Ο
ATOM 15602 OH2 HOH	IX 159 5.726	12.892 33.667	1.00 41.75	Ο
ATOM 15605 OH2 HOH	IX 160 28.386	37.421 67.590	1.00 50.20	Ο
<b>ATOM 15608 OH2 HOH</b>	IX 161 21.402	2 14.875 66.629	1.00 55.99	Ο
ATOM 15611 OH2 HOH	HX 162 48.282	7.498 59.343	1.00 64.22	Ο
ATOM 15614 OH2 HOH	H X 163 6.367	7.912 33.782	1.00 55.31	Ο
ATOM 15617 OH2 HOH	IX 164 22.722	2 62.779 126.079	1.00 56.29	Ο
ATOM 15620 OH2 HOH	1 X 165 8.660	73.673 117.316	1.00 39.82	Ο
ATOM 15623 OH2 HOH	IX 166 39.448	3 1.815 50.281	1.00 52.32	Ο
ATOM 15626 OH2 HOH	IX 167 62.599	23.311 47.584	1.00 61.70	Ο
END				

REMARK \*\*\*\*\*\*\* CONFIDENTIAL \*

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REMARK INFORMATION BELONGING TO KARO BIO AB ,STOCKHOLM, SWEDEN.

REMARK THEY ARE TO BE HELD IN CONFIDENCE AND ARE NOT TO BE USED FOR

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REMARK

TITLE HUMAN LXR BETA HORMONE RECEPTOR COMPLEXED WITH

TITLE 2 KB008444/T0901317 COMPLEX

REMARK

REMARK ATOMIC COORDINATES OF A CRYSTAL STRUCTURE

REMARK

REMARK DEPOSITOR: MATHIAS FARNEGARDH

(MATHIAS.FARNEGARDH@KAROBIO.SE)

**REMARK DEPOSITION DATE 5-SEP-2002** 

REMARK

REMARK THE ATOMIC COORDINATES AND/OR STRUCTURE FACTORS IN

THIS FILE ARE THE

REMARK EXPERIMENTAL RESULTS OF:

REMARK

REMARK MATHIAS FARNEGARDH, KARO BIO AB

REMARK NOVUM, 141 57 HUDDINGE, SWEDEN

REMARK

REMARK IMPORTANT NOTE #############

REMARK THIS DATA WAS COLLECTED RAPIDLY ON AN HOME SOURCE (RIGAKU RU300)

REMARK TO DECREASE THE AMOUNT OF LIGAND SPLITTING THE

RESOLUTION IS DUE TO

REMARK THIS ONLY 2.9 A. IN ORDER TO TAKE ADVANTAGE OF THE HIGH RESOLUTION

REMARK STRUCTURE OF THIS COMPLEX (WHERE THE LIGAND IS SPLIT BY XRAY RADIATION)

REMARK WAS THE HIGH RESOLUTION STRUCTURE lxrb\_KB008444\_split.pdb USED AS THE

REMARK STARTING MODEL FOR THIS REFINEMENT INCLUDING ALL THE WATERS.

REAMRK THE DIFFERENCES BETWEEN THE TWO STRUCTURES ARE ONLY LOCATED AT THE N-S

REMARK SPLITTING POINT OF THE LIGAND.

REMARK

REMARK THIS ENTRY CONTAINS THE COMPLETE CONTENT OF THE ASYMETRIC UNIT

PCT/IB2003/006412

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REMARK THAT COULD BE BUILT INTO INTERPRETABLE ELECTRON DENSITIES REMARK IT CONTAINS 4 INDEPENDENTLY REFINED PROTEIN MONOMERS REMARK CHAIN A 220-253, 261-458 **REMARK A500 IS THE LIGAND** REMARK CHAIN B 219-258, 261-458 (GLN219, LEU330 MODELLED AS ALA) REMARK B500 IS THE LIGAND REMARK CHAIN C 220-243, 248-254, 259-458 REMARK C500 IS THE LIGAND REMARK CHAIN D 220-242, 249-252, 260-329, 333-443, 448-458 REMARK (PHE329 MODELLED AS ALA) D500 IS THE LIGAND REMARK THE PROTEIN CRYSTALLIZED CONTAIN RESIDUES 213-461, THE GAPS IN THE REMARK STRUCTURE ARE DUE TO UNINTERPRETABLE ELECTRONDENSITIES IN THESE REMARK PARTICULAR REGIONS HEADER LXRB+KB008444/T0901317 05-SEP-02 XXXX COMPND MOL ID: 1; COMPND 2 MOLECULE: LIVER X RECEPTOR BETA; COMPND 3 CHAIN: A, B, C, D; COMPND 4 FRAGMENT: LIGAND BINDING DOMAIN; COMPND 5 SYNONYM: LXRB; REMARK 3 REMARK 3 REFINEMENT. REMARK 3 PROGRAM : REFMAC 5.1.19 REMARK 3 AUTHORS : MURSHUDOV, VAGIN, DODSON REMARK 3 REMARK 3 REFINEMENT TARGET: MAXIMUM LIKELIHOOD REMARK 3 REMARK 3 DATA USED IN REFINEMENT. REMARK 3 RESOLUTION RANGE HIGH (ANGSTROMS): 2.80 REMARK 3 RESOLUTION RANGE LOW (ANGSTROMS): 40.00 REMARK 3 DATA CUTOFF (SIGMA(F)): NONE REMARK 3 COMPLETENESS FOR RANGE (%): 99.91 REMARK 3 NUMBER OF REFLECTIONS : 25718 REMARK 3 REMARK 3 FIT TO DATA USED IN REFINEMENT. • REMARK 3 CROSS-VALIDATION METHOD : THROUGHOUT REMARK 3 FREE R VALUE TEST SET SELECTION: RANDOM REMARK 3 R VALUE (WORKING + TEST SET): 0.19861 (WORKING SET): 0.19526 REMARK 3 R VALUE REMARK 3 FREER VALUE : 0.26170 REMARK 3 FREER VALUE TEST SET SIZE (%): 5.1 REMARK 3 FREER VALUE TEST SET COUNT REMARK 3 REMARK 3 FIT IN THE HIGHEST RESOLUTION BIN. REMARK 3 TOTAL NUMBER OF BINS USED 20 : 2.800 REMARK 3 BIN RESOLUTION RANGE HIGH

```
REMARK 3 BIN RESOLUTION RANGE LOW
                                        : 2.872
REMARK 3 REFLECTION IN BIN (WORKING SET): 1831
                          (WORKING SET): 0.279
REMARK 3 BIN R VALUE
REMARK 3 BIN FREE R VALUE SET COUNT
                                           100
REMARK 3 BIN FREE R VALUE
                                  : 0.348
REMARK 3
REMARK 3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
REMARK 3 ALL ATOMS : 7782
REMARK 3
REMARK 3 B VALUES.
REMARK 3 FROM WILSON PLOT
                                (A**2): NULL
                          (OVERALL, A**2): 24.302
REMARK 3 MEAN B VALUE
REMARK 3 OVERALL ANISOTROPIC B VALUE.
REMARK 3 B11 (A**2): 0.01
REMARK 3 B22 (A**2): 1.29
REMARK 3 B33 (A**2): -1.30
REMARK 3 B12 (A**2): 0.00
REMARK 3 B13 (A**2): 0.00
REMARK 3 B23 (A**2): 0.00
REMARK 3
REMARK 3 ESTIMATED OVERALL COORDINATE ERROR.
REMARK 3 ESU BASED ON R VALUE
                                           (A): NULL
REMARK 3 ESU BASED ON FREE R VALUE
                                             (A): 0.410
REMARK 3 ESU BASED ON MAXIMUM LIKELIHOOD
                                                   (A): 0.305
REMARK 3 ESU FOR B VALUES BASED ON MAXIMUM LIKELIHOOD (A**2):
15.914
REMARK 3
REMARK 3 CORRELATION COEFFICIENTS.
REMARK 3 CORRELATION COEFFICIENT FO-FC
                                          : 0.935
REMARK 3 CORRELATION COEFFICIENT FO-FC FREE: 0.892
REMARK 3
                                              COUNT RMS
REMARK 3 RMS DEVIATIONS FROM IDEAL VALUES
WEIGHT
REMARK 3 BOND LENGTHS REFINED ATOMS
                                         (A): 7745; 0.016; 0.022
                                     (A): 7177; 0.002; 0.020
REMARK 3 BOND LENGTHS OTHERS
REMARK 3 BOND ANGLES REFINED ATOMS (DEGREES): 10502; 1.490; 1.980
                                  (DEGREES): 16631; 0.842; 3.000
REMARK 3 BOND ANGLES OTHERS
REMARK 3 TORSION ANGLES, PERIOD 1 (DEGREES): 908; 5.804; 5.000
                                      (A**3): 1189; 0.074; 0.200
REMARK 3 CHIRAL-CENTER RESTRAINTS
REMARK 3 GENERAL PLANES REFINED ATOMS (A): 8385; 0.005; 0.020
                                      (A): 1612; 0.002; 0.020
REMARK 3 GENERAL PLANES OTHERS
REMARK 3 NON-BONDED CONTACTS REFINED ATOMS (A): 1833; 0.215;
0.200
REMARK 3 NON-BONDED CONTACTS OTHERS
                                          (A): 8222; 0.224; 0.200
                                         (A): 4710; 0.088; 0.200
REMARK 3 NON-BONDED TORSION OTHERS
                                        (A): 208; 0.180; 0.200
REMARK 3 H-BOND (X...Y) REFINED ATOMS
REMARK 3 SYMMETRY VDW REFINED ATOMS
                                           (A): 20; 0.205; 0.200
                                       (A): 81; 0.243; 0.200
REMARK 3 SYMMETRY VDW OTHERS
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REMARK 3 SYMMETRY H-BOND REFINED ATOMS
                                              (A): 11; 0.126; 0.200
REMARK 3
REMARK 3 ISOTROPIC THERMAL FACTOR RESTRAINTS. COUNT RMS
WEIGHT
REMARK 3 MAIN-CHAIN BOND REFINED ATOMS (A**2): 4613; 0.581; 1.500
REMARK 3 MAIN-CHAIN ANGLE REFINED ATOMS (A**2): 7458; 1.145; 2.000
REMARK 3 SIDE-CHAIN BOND REFINED ATOMS (A**2): 3132; 1.659; 3.000
REMARK 3 SIDE-CHAIN ANGLE REFINED ATOMS (A**2): 3044; 3.050; 4.500
REMARK 3
REMARK 3 NCS RESTRAINTS STATISTICS
REMARK 3 NUMBER OF NCS GROUPS: NULL
REMARK 3
REMARK 3
REMARK 3 TLS DETAILS
REMARK 3 NUMBER OF TLS GROUPS: NULL
REMARK 3
REMARK 3
REMARK 3 BULK SOLVENT MODELLING.
REMARK 3 METHOD USED: BABINET MODEL WITH MASK
REMARK 3 PARAMETERS FOR MASK CALCULATION
REMARK 3 VDW PROBE RADIUS: 1.40
REMARK 3 ION PROBE RADIUS: 0.80
REMARK 3 SHRINKAGE RADIUS: 0.80
REMARK 3
REMARK 3 OTHER REFINEMENT REMARKS:
REMARK 3 HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS
REMARK 3
          PRO A 253
                            ALA A 261
                                            gap
LINK
                            ALA B 261
          PRO B 258
                                            gap
LINK
                            LYS C 248
LINK
          PHE C 243
                                            gap
          ALA C 254
                            GLN C 259
LINK
                                            gap
                            VAL D 249
          SER D 242
LINK
                                            gap
          TRP D 252
                            ALA D 260
                                            gap
LINK
                            PHE D 333
LINK
          ALA D 329
                                            gap
                            LYS D 448
LINK
          ARG D 443
                                            gap
CRYST1 58.722 103.262 176.002 90.00 90.00 90.00 P 21 21 21
         0.017029 0.000000 0.000000
                                   0.00000
SCALE1
         0.000000 0.009684 0.000000
                                   0.00000
SCALE2
         0.000000 0.000000 0.005682
                                   0.00000
SCALE3
ATOM 1 N LEU A 220 5.857 8.165 59.175 1.00 15.68
                                                      N
                         4.611 8.973 59.427 1.00 17.29
                                                      C
        3 CA LEU A 220
ATOM
                                                      C
                         3.715 9.000 58.174 1.00 17.72
ATOM
        5 CB LEU A 220
                                                       \mathbf{C}
        8 CG LEU A 220
                         3.555 10.232 57.242 1.00 20.46
ATOM
ATOM 10 CD1 LEU A 220
                          2.059 10.393 56.770 1.00 21.48
                                                        C
                                                        C
ATOM 14 CD2 LEU A 220
                         4.105 11.593 57.820 1.00 21.78
ATOM 18 C LEU A 220
                         3.778 8.419 60.590 1.00 16.81
                                                      C
                         3.383 7.253 60.556 1.00 16.85
ATOM 19 O LEU A 220
                                                      0
                                                      N
                         3.473 9.239 61.599 1.00 16.32
ATOM 22 N THR A 221
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ATOM 26 CB THR A 221 ATOM 28 OG1 THR A 221 ATOM 30 CG2 THR A 221 ATOM 34 C THR A 221 ATOM 35 O THR A 221 ATOM 36 N ALAA 222 ATOM 36 N ALAA 222 ATOM 46 CB ALAA 222 ATOM 40 CB ALAA 222 ATOM 45 O ALAA 222 ATOM 45 O ALAA 222 ATOM 45 O ALAA 223 ATOM 46 N ALAA 223 ATOM 47 O B ALAA 223 ATOM 48 CA ALAA 223 ATOM 48 CA ALAA 223 ATOM 50 CB ALAA 223 ATOM 60 CB GLN A 224 ATOM 55 O ALAA 224 ATOM 56 N GLN A 224 ATOM 57 O ALAA 224 ATOM 58 CA GLN A 224 ATOM 60 CB GLN A 224 ATOM 60 CB GLN A 224 ATOM 61 CF GLN A 224 ATOM 62 CF GLU A 225 ATOM 75 CA GLU A 225 ATOM 75 CA GLU A 225 ATOM 84 C GLU A 225 ATOM 85 OF GLU A 225 ATOM 85 OF GLU A 225 ATOM 87 O GLU A 225 ATOM 88 N LEU A 226 ATOM 87 O GLU A 225 ATOM 88 N LEU A 226 ATOM 87 O GLU A 225 ATOM 88 N LEU A 226 ATOM 89 CG GLU A 225 ATOM 87 O GLU A 225 ATOM 87 O GLU A 225 ATOM 88 N LEU A 226 ATOM 89 CG GLU A 225 ATOM 89 CG LEU A 226 ATOM 90 CA LEU A 226 ATOM 90 CA LEU A 226 ATOM 91 CDLU A 226 ATOM 90 CA LEU A 226 ATOM 91 CDLU A 226 ATOM 90 CA LEU A 226 ATOM 91 CDLU A 226 ATOM 91 CDLU A 226 ATOM 90 CA LEU A 226 ATOM 91 CDLU A 226 ATOM 91 CDLU A 226 ATOM 92 CB LEU A 226 ATOM 95 CA GLU A 225 ATOM 97 CDL LEU A 226 ATOM 90 CA LEU A 226 ATOM 90 CA LEU A 226 ATOM 91 CDLU A 225 ATOM 90 CA LEU A 226 ATOM 90 CA LEU A 226 ATOM 91 CDLU A 225 ATOM 90 CA LEU A 226 ATOM 90 CA LEU A 226 ATOM 91 CDLU A 226 ATOM 90 CA LEU A 226 ATOM 91 CDLU A 226 ATOM 92 CB LEU A 226 ATOM 93 CG LEU A 225 ATOM 94 CG LEU A 226 ATOM 95 CG LEU A 226 ATOM 95 CG LEU A 226 ATOM 97 CDL LEU A 226 ATOM 98 CG LEU A 226 ATOM 99 CA LEU A 226 ATOM 99 CA LEU A 226 ATOM 90 CA LEU A 226 ATOM 90 CA LEU A 226 ATOM 91 CDL LEU A 226 ATOM 91 CDL LEU A 226 ATOM 92 CB LEU A 226 ATOM 93 CG LEU				
ATOM 28 OG1 THR A 221 ATOM 30 CG2 THR A 221 ATOM 34 C THR A 221 ATOM 35 O THR A 221 ATOM 36 N ALA A 222 ATOM 36 N ALA A 222 ATOM 37 OR ALA A 222 ATOM 40 CB ALA A 222 ATOM 40 CB ALA A 222 ATOM 40 CB ALA A 222 ATOM 45 O ALA A 222 ATOM 45 O ALA A 222 ATOM 45 O ALA A 223 ATOM 46 N ALA A 223 ATOM 50 CB ALA A 224 ATOM 60 CB GLN A 224 ATOM 67 OEI GLN A 224 ATOM 67 OEI GLN A 224 ATOM 70 CB GLU A 225 ATOM 70 CB CLU A 226 ATOM 70 CB CL	ATOM			C
ATOM 30 CG2 THR A 221 ATOM 34 C THR A 221 ATOM 35 O THR A 221 ATOM 35 O THR A 221 ATOM 36 N ALA A 222 ATOM 38 CA ALA A 222 ATOM 40 CB ALA A 222 ATOM 44 C ALA A 222 ATOM 45 O ALA A 222 ATOM 46 N ALA A 223 ATOM 46 N ALA A 223 ATOM 50 CB ALA A 224 ATOM 60 CB GLN A 224 ATOM 70 CB GLN A 224 ATOM 71 C GLN A 224 ATOM 72 O GLN A 224 ATOM 73 N GLU A 225 ATOM 75 CA GLU A 225 ATOM 80 CG GLU A 225 ATOM 90 CA LEU A 226 ATOM 90 CA MET A 227 ATOM 101 CD2 LEU A 226 ATOM 102 CB LEU A 226 ATOM 104 CB MET A 227 ATOM 107 CB MET A 227 ATOM 111 CB MET A 227 ATOM	ATOM			С
ATOM 34 C THR A 221	ATOM	28 OG1 THR A 221		Ο
ATOM 35 O THR A 221 0.751 9.250 61.717 1.00 16.20 O ATOM 36 N ALA A 222 0.669 7.802 63.447 1.00 16.12 N ATOM 38 CA ALA A 222 -0.792 7.607 63.422 1.00 15.82 C ATOM 40 CB ALA A 222 -1.269 6.776 64.623 1.00 15.57 ATOM 44 C ALA A 222 -1.487 8.948 63.416 1.00 15.68 C ATOM 45 O ALA A 222 -2.431 9.165 62.664 1.00 16.24 O ATOM 46 N ALA A 223 -1.010 9.854 64.251 1.00 15.26 N ATOM 48 CA ALA A 223 -1.000 9.854 64.251 1.00 15.26 N ATOM 50 CB ALA A 223 -1.606 11.168 64.343 1.00 15.26 ATOM 50 CB ALA A 223 -1.397 11.968 63.046 1.00 15.37 C ATOM 55 O ALA A 223 -2.247 12.750 62.660 1.00 14.83 O ATOM 56 N GLN A 224 -0.264 11.767 62.381 1.00 15.80 N ATOM 58 CA GLN A 224 -0.264 11.767 62.381 1.00 15.36 ATOM 60 CB GLN A 224 -0.005 12.423 61.108 1.00 16.16 ATOM 60 CB GLN A 224 ATOM 66 CD GLN A 224 ATOM 68 NE2 GLN A 224 ATOM 68 NE2 GLN A 224 -0.866 11.847 59.987 1.00 16.83 C ATOM 71 C GLN A 224 -0.866 11.847 59.987 1.00 16.83 C ATOM 75 CA GLU A 225 -1.044 10.541 59.944 1.00 17.54 ATOM 75 CA GLU A 225 -1.044 10.541 59.944 1.00 17.54 ATOM 76 CB GLU A 225 -0.739 6.189 58.646 1.00 29.83 ATOM 85 OE2 GLU A 225 -0.739 6.189 58.646 1.00 29.83 ATOM 87 O GLU A 225 -0.739 6.189 58.646 1.00 29.83 ATOM 87 O GLU A 225 -0.739 6.189 58.646 1.00 19.80 C ATOM 90 CA LEU A 226 -5.351 11.002 60.747 1.00 19.06 N ATOM 97 CD1 LEU A 226 -5.351 11.002 60.747 1.00 19.53 C ATOM 97 CD1 LEU A 226 -5.351 11.002 60.747 1.00 19.53 C ATOM 97 CD1 LEU A 226 -5.351 11.002 60.747 1.00 19.53 C ATOM 97 CD1 LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 105 C LEU A 226 -5.351 11.002 60.747 1.00 19.54 ATOM 106 O LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 107 N MET A 227 -4.448 14.759 60.126 1.00 19.84 C ATOM 107 N MET A 227 -4.448 14.759 60.126 1.00 19.66 ATOM 111 CB MET A 227 -4.448 14.759 60.126 1.00 10.89 ATOM 111 CB MET A 227 -2.751 16.682 59.708 1.00 20.78 ATOM 111 CB MET A 227 -2.751 16.682 59.708 1.00 20.73 ATOM 111 CB MET A 227 -2.751 16.682 59.708 1.00 20.33 ATOM 117 SD MET A 227 -2.52 17.480 60.399 1.00 30.33	ATOM	30 CG2 THR A 221		C
ATOM 36 N ALA A 222	ATOM	34 C THR A 221		C
ATOM 38 CA ALA A 222	ATOM	35 O THR A 221		O
ATOM 40 CB ALA A 222 -1.269 6.776 64.623 1.00 15.57 CC ATOM 44 C ALA A 222 -1.487 8.948 63.416 1.00 15.68 CC ATOM 45 O ALA A 222 -2.431 9.165 62.664 1.00 16.24 ON ATOM 46 N ALA A 223 -1.010 9.854 64.251 1.00 15.26 N ATOM 48 CA ALA A 223 -1.006 11.168 64.343 1.00 15.26 ATOM 50 CB ALA A 223 -1.026 11.901 65.538 1.00 15.52 ATOM 54 C ALA A 223 -1.026 11.901 65.538 1.00 15.37 CC ALA A 223 -2.247 12.750 62.660 1.00 14.83 ATOM 56 N GLN A 224 -0.264 11.767 62.381 1.00 15.80 N ATOM 58 CA GLN A 224 -0.065 12.423 61.108 1.00 16.16 ATOM 60 CB GLN A 224 1.479 12.350 60.734 1.00 16.24 ATOM 63 CG GLN A 224 3.857 13.076 61.233 1.00 13.69 ATOM 67 OE1 GLN A 224 4.276 11.933 61.080 1.00 11.58 ATOM 67 OE1 GLN A 224 4.642 14.144 61.171 1.00 12.35 ATOM 71 C GLN A 224 4.642 14.144 61.171 1.00 12.35 ATOM 72 O GLN A 224 -0.856 11.847 59.987 1.00 16.83 CATOM 75 CA GLU A 225 -1.044 10.541 59.944 1.00 17.50 ATOM 75 CA GLU A 225 -1.0919 8.421 58.996 1.00 19.80 ATOM 75 CA GLU A 225 -1.919 8.421 58.996 1.00 19.80 ATOM 80 CG GLU A 225 -0.583 7.718 58.708 1.00 22.22 ATOM 81 CD GLU A 225 -0.583 7.718 58.708 1.00 22.22 CATOM 85 OE2 GLU A 225 -0.583 7.718 58.708 1.00 22.83 ATOM 85 OE2 GLU A 225 -0.586 11.09 59.44 1.00 11.55 NATOM 90 CA LEU A 226 -5.351 11.028 62.260 1.00 19.96 ATOM 97 CD1 LEU A 226 -5.087 11.076 60.747 1.00 19.53 ATOM 97 CD1 LEU A 226 -5.087 11.076 60.747 1.00 19.53 ATOM 97 CD1 LEU A 226 -5.087 11.076 60.747 1.00 19.53 ATOM 97 CD1 LEU A 226 -5.087 11.076 60.747 1.00 19.53 ATOM 97 CD1 LEU A 226 -5.283 12.516 60.326 1.00 18.94 ATOM 105 C LEU A 226 -5.283 12.516 60.326 1.00 19.84 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.69 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.69 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.69 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.69 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.69 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.69 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.69 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.11 N ATOM 101 CD LEU A 226 -5.283 12.516	ATOM	36 N ALA A 222		N
ATOM 44 C ALA A 222 -1.487 8.948 63.416 1.00 15.68 C ATOM 45 O ALA A 222 -2.431 9.165 62.664 1.00 16.24 O ATOM 46 N ALA A 223 -1.010 9.854 64.251 1.00 15.26 N ATOM 48 CA ALA A 223 -1.026 11.901 65.538 1.00 15.52 O ATOM 50 CB ALA A 223 -1.026 11.901 65.538 1.00 15.52 O ATOM 54 C ALA A 223 -1.026 11.901 65.538 1.00 15.52 O ATOM 55 O ALA A 223 -2.247 12.750 62.660 1.00 14.83 O ATOM 56 N GLN A 224 -0.264 11.767 62.381 1.00 15.80 O ATOM 58 CA GLN A 224 -0.065 12.423 61.108 1.00 16.16 O ATOM 60 CB GLN A 224 -0.005 12.423 61.108 1.00 16.24 O ATOM 63 CG GLN A 224 -2.383 13.329 61.487 1.00 15.36 O ATOM 66 CD GLN A 224 -4.276 11.933 61.080 1.00 11.58 O ATOM 67 OE1 GLN A 224 -4.276 11.933 61.080 1.00 11.58 O ATOM 68 NE2 GLN A 224 -4.642 14.144 61.771 1.00 12.35 O ATOM 71 C GLN A 224 -0.856 11.847 59.987 1.00 16.83 O ATOM 72 O GLN A 224 -1.044 10.541 59.944 1.00 17.50 O ATOM 75 CA GLU A 225 -1.918 9.962 58.938 1.00 18.71 O ATOM 77 CB GLU A 225 -1.918 9.962 58.938 1.00 18.71 O ATOM 80 CG GLU A 225 -1.918 9.962 58.938 1.00 19.80 C ATOM 80 CG GLU A 225 -0.583 7.718 58.708 1.00 22.22 O ATOM 80 CG GLU A 225 -0.583 7.718 58.708 1.00 29.75 O ATOM 80 CG GLU A 225 -0.739 6.189 58.646 1.00 27.82 O ATOM 80 CG GLU A 225 -0.583 7.718 58.708 1.00 29.75 O ATOM 80 CG GLU A 225 -0.583 7.718 58.708 1.00 29.75 O ATOM 80 CG GLU A 225 -0.583 7.718 58.708 1.00 29.75 O ATOM 80 CG GLU A 225 -0.583 7.718 58.708 1.00 29.75 O ATOM 80 CG GLU A 225 -0.583 7.718 58.708 1.00 29.75 O ATOM 80 CG GLU A 225 -0.583 7.718 58.708 1.00 29.75 O ATOM 90 CA LEU A 226 -5.351 11.028 62.260 1.00 19.76 O ATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 O ATOM 90 CA LEU A 226 -5.283 12.516 60.326 1.00 18.94 O ATOM 101 CD2 LEU A 226 -6.676 11.739 64.269 1.00 18.94 O ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.69 O ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.69 O ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.69 O ATOM 107 CB MET A 227 -4.260 13.348 60.435 1.00 20.67 O ATOM 111 CB MET A 227 -2.751 16.682 59.708 1.00 23.98 O ATOM 117 SD MET A 227 -2.751	ATOM	38 CA ALA A 222		С
ATOM 45 O ALA A 222 -2.431 9.165 62.664 1.00 16.24 ATOM 46 N ALA A 223 -1.010 9.854 64.251 1.00 15.26 N ATOM 48 CA ALA A 223 -1.006 11.168 64.343 1.00 15.26 ATOM 50 CB ALA A 223 -1.026 11.901 65.538 1.00 15.52 ATOM 54 C ALA A 223 -1.026 11.901 65.538 1.00 15.52 ATOM 55 O ALA A 223 -2.247 12.750 62.660 1.00 14.83 ATOM 56 N GLN A 224 -0.264 11.767 62.381 1.00 15.80 ATOM 58 CA GLN A 224 -0.005 12.423 61.108 1.00 16.16 ATOM 60 CB GLN A 224 -0.005 12.423 61.108 1.00 16.16 ATOM 60 CB GLN A 224 2.383 13.329 61.487 1.00 15.36 ATOM 66 CD GLN A 224 3.857 13.076 61.233 1.00 13.69 ATOM 67 OE1 GLN A 224 4.276 11.933 61.080 1.00 11.58 ATOM 71 C GLN A 224 -0.856 11.847 59.987 1.00 16.83 ATOM 72 O GLN A 224 -0.856 11.847 59.987 1.00 16.83 ATOM 73 N GLU A 225 -1.044 10.541 59.944 1.00 17.54 ATOM 75 CA GLU A 225 -1.918 9.962 58.938 1.00 18.71 ATOM 77 CB GLU A 225 -1.919 8.421 58.996 1.00 19.80 ATOM 80 CG GLU A 225 -0.583 7.718 58.708 1.00 22.22 ATOM 81 OEI GLU A 225 -0.583 7.718 58.708 1.00 22.22 ATOM 82 OEI GLU A 225 -0.583 7.718 58.708 1.00 22.22 ATOM 83 OE2 GLU A 225 -0.583 7.718 58.708 1.00 29.83 ATOM 86 C GLU A 225 -0.583 7.718 58.708 1.00 29.83 ATOM 87 O GLU A 225 -0.583 7.718 58.708 1.00 29.83 ATOM 88 N LEU A 226 -5.587 11.076 60.747 1.00 19.53 ATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 ATOM 97 CD1 LEU A 226 -5.351 11.028 62.260 1.00 19.76 ATOM 97 CD1 LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 105 C LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.69 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.69 ATOM 107 N MET A 227 -4.448 14.759 60.126 1.00 20.69 ATOM 111 CB MET A 227 -4.260 13.348 60.435 1.00 20.02 ATOM 111 CB MET A 227 -2.751 16.682 59.708 1.00 20.398 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	40 CB ALA A 222	-1.269 6.776 64.623 1.00 15.57	C
ATOM 46 N ALA A 223 -1.010 9.854 64.251 1.00 15.26 N ATOM 48 CA ALA A 223 -1.606 11.168 64.343 1.00 15.26 C ATOM 50 CB ALA A 223 -1.397 11.968 63.046 1.00 15.37 C ATOM 55 O ALA A 223 -1.397 11.968 63.046 1.00 15.37 C ATOM 55 O ALA A 223 -2.247 12.750 62.660 1.00 14.83 O ATOM 56 N GLN A 224 -0.264 11.767 62.381 1.00 15.80 N ATOM 58 CA GLN A 224 -0.005 12.423 61.108 1.00 16.16 C ATOM 60 CB GLN A 224 1.479 12.350 60.734 1.00 16.24 ATOM 63 CG GLN A 224 2.383 13.329 61.487 1.00 15.36 ATOM 66 CD GLN A 224 4.276 11.933 61.080 1.00 11.58 C ATOM 67 OE1 GLN A 224 -0.856 11.847 59.987 1.00 16.83 C ATOM 71 C GLN A 224 -0.856 11.847 59.987 1.00 16.83 C ATOM 72 O GLN A 224 -0.856 11.847 59.987 1.00 16.83 C ATOM 75 CA GLU A 225 -1.044 10.541 59.944 1.00 17.54 N ATOM 76 CB GLU A 225 -1.044 10.541 59.944 1.00 17.54 N ATOM 77 CB GLU A 225 -1.044 10.541 59.944 1.00 17.54 N ATOM 80 CG GLU A 225 -0.539 7.718 58.708 1.00 22.22 C ATOM 81 OE1 GLU A 225 -0.739 6.189 58.646 1.00 27.82 C ATOM 82 OE2 GLU A 225 -0.739 6.189 58.646 1.00 29.83 C ATOM 83 N LEU A 226 -0.739 6.189 58.646 1.00 29.83 C ATOM 86 C GLU A 225 -3.326 10.487 59.160 1.00 18.57 C ATOM 87 O GLU A 225 -3.788 10.489 60.401 1.00 19.64 ATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 C ATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 C ATOM 90 CA LEU A 226 -6.612 11.759 62.761 1.00 19.44 C ATOM 101 CD2 LEU A 226 -6.612 11.759 62.761 1.00 19.44 C ATOM 105 C LEU A 226 -6.612 11.759 62.761 1.00 19.44 C ATOM 106 O LEU A 226 -6.639 1 12.892 59.964 1.00 20.69 C ATOM 107 N MET A 227 -4.448 14.759 60.126 1.00 20.69 C ATOM 107 N MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 111 CB MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	44 C ALA A 222		C
ATOM 48 CA ALA A 223 -1.606 11.168 64.343 1.00 15.26 ATOM 50 CB ALA A 223 -1.026 11.901 65.538 1.00 15.52 ATOM 54 C ALA A 223 -1.397 11.968 63.046 1.00 15.37 ATOM 55 O ALA A 223 -2.247 12.750 62.660 1.00 14.83 ATOM 56 N GLN A 224 -0.005 12.423 61.108 1.00 15.80 ATOM 58 CA GLN A 224 -0.005 12.423 61.108 1.00 16.16 ATOM 60 CB GLN A 224 1.479 12.350 60.734 1.00 16.24 ATOM 63 CG GLN A 224 2.383 13.329 61.487 1.00 15.36 ATOM 66 CD GLN A 224 3.857 13.076 61.233 1.00 13.69 ATOM 67 OE1 GLN A 224 4.642 14.144 61.171 1.00 12.35 ATOM 71 C GLN A 224 -0.856 11.847 59.987 1.00 16.83 ATOM 72 O GLN A 224 -1.344 12.586 59.155 1.00 17.50 ATOM 73 N GLU A 225 -1.044 10.541 59.944 1.00 17.54 ATOM 76 CB GLU A 225 -0.583 7.718 58.708 1.00 27.82 ATOM 80 CG GLU A 225 -0.583 7.718 58.708 1.00 29.83 ATOM 80 CG GLU A 225 -0.583 7.718 58.708 1.00 29.83 ATOM 87 O GLU A 225 -1.896 5.694 58.806 1.00 29.83 ATOM 88 N LEU A 226 -3.788 10.487 59.961 1.00 19.06 ATOM 90 CA LEU A 226 -3.788 10.487 59.961 1.00 19.50 ATOM 90 CA LEU A 226 -5.351 11.028 62.260 1.00 19.76 ATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 ATOM 91 CD2 LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 101 CD2 LEU A 226 -6.676 11.1739 64.269 1.00 19.84 ATOM 107 N MET A 227 -4.448 14.759 60.126 1.00 20.78 ATOM 111 CB MET A 227 -4.481 44.759 60.126 1.00 20.67 ATOM 111 CB MET A 227 -4.261 1.550 63.36 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	45 O ALA A 222		_
ATOM 50 CB ALA A 223 -1.026 11.901 65.538 1.00 15.52 ATOM 54 C ALA A 223 -1.397 11.968 63.046 1.00 15.37 C ALA A 223 -2.247 12.750 62.660 1.00 14.83 O ATOM 55 O ALA A 224 -0.264 11.767 62.381 1.00 15.80 N ATOM 58 CA GLN A 224 -0.005 12.423 61.108 1.00 16.16 ATOM 60 CB GLN A 224 1.479 12.350 60.734 1.00 16.24 ATOM 63 CG GLN A 224 2.383 13.329 61.487 1.00 15.36 ATOM 66 CD GLN A 224 3.857 13.076 61.233 1.00 13.69 ATOM 67 OE1 GLN A 224 4.276 11.933 61.080 1.00 11.58 ATOM 71 C GLN A 224 -0.856 11.847 59.987 1.00 16.83 ATOM 72 O GLN A 224 -1.344 12.586 59.155 1.00 17.50 ATOM 73 N GLU A 225 -1.044 10.541 59.944 1.00 17.54 N ATOM 75 CA GLU A 225 -1.044 10.541 59.944 1.00 17.54 N ATOM 76 CB GLU A 225 -1.918 9.962 58.938 1.00 18.71 ATOM 80 CG GLU A 225 -0.583 7.718 58.708 1.00 22.22 ATOM 80 CG GLU A 225 -0.583 7.718 58.708 1.00 22.22 CATOM 85 OE2 GLU A 225 -0.739 6.189 58.646 1.00 27.82 ATOM 86 C GLU A 225 -0.739 6.189 58.646 1.00 27.82 ATOM 86 C GLU A 225 -0.739 6.189 58.646 1.00 27.82 ATOM 86 C GLU A 225 -0.739 6.189 58.646 1.00 27.82 ATOM 87 O GLU A 225 -3.326 10.487 59.160 1.00 18.57 CATOM 88 N LEU A 226 -3.788 10.489 60.401 1.00 19.06 N ATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 ATOM 90 CA LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 97 CD1 LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 97 CD1 LEU A 226 -6.612 11.759 62.761 1.00 19.84 ATOM 105 C LEU A 226 -6.612 11.759 62.761 1.00 19.84 ATOM 107 N MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 111 CB MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 114 CG MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -2.751 16.682	ATOM	46 N ALA A 223		N
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ATOM 55 O ALA A 223 -2.247 12.750 62.660 1.00 14.83 ATOM 56 N GLN A 224 -0.264 11.767 62.381 1.00 15.80 ATOM 58 CA GLN A 224 -0.005 12.423 61.108 1.00 16.16 ATOM 60 CB GLN A 224 1.479 12.350 60.734 1.00 16.24 ATOM 63 CG GLN A 224 2.383 13.329 61.487 1.00 15.36 ATOM 66 CD GLN A 224 2.383 13.329 61.487 1.00 15.36 ATOM 67 OE1 GLN A 224 4.276 11.933 61.080 1.00 11.58 ATOM 68 NE2 GLN A 224 4.276 11.933 61.080 1.00 11.58 ATOM 71 C GLN A 224 4.642 14.144 61.171 1.00 12.35 ATOM 72 O GLN A 224 -0.856 11.847 59.987 1.00 16.83 ATOM 73 N GLU A 225 -1.044 10.541 59.944 1.00 17.54 ATOM 75 CA GLU A 225 -1.918 9.962 58.938 1.00 18.71 ATOM 77 CB GLU A 225 -1.918 9.962 58.938 1.00 18.71 ATOM 80 CG GLU A 225 -0.739 6.189 58.646 1.00 27.82 ATOM 84 OE1 GLU A 225 -0.739 6.189 58.646 1.00 29.83 ATOM 85 OE2 GLU A 225 -0.739 6.189 58.646 1.00 29.83 ATOM 86 C GLU A 225 -0.739 6.189 58.646 1.00 29.83 ATOM 87 O GLU A 225 -0.739 6.189 58.646 1.00 29.83 ATOM 88 N LEU A 226 -0.739 6.189 58.236 1.00 18.57 ATOM 87 O GLU A 225 -3.326 10.487 59.160 1.00 18.57 ATOM 88 N LEU A 226 -5.087 11.076 60.747 1.00 19.53 ATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 ATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 ATOM 90 CA LEU A 226 -6.612 11.759 62.761 1.00 19.84 ATOM 101 CD2 LEU A 226 -6.676 11.739 64.269 1.00 18.94 ATOM 105 C LEU A 226 -6.391 12.892 59.964 1.00 20.78 ATOM 107 N MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 111 CB MET A 227 -3.305 15.603 60.675 1.00 21.19 ATOM 114 CG MET A 227 -3.305 15.603 60.675 1.00 21.19 ATOM 117 SD MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	50 CB ALA A 223		C
ATOM 56 N GLN A 224 -0.264 11.767 62.381 1.00 15.80 N ATOM 58 CA GLN A 224 -0.005 12.423 61.108 1.00 16.16 ATOM 60 CB GLN A 224 1.479 12.350 60.734 1.00 16.24 ATOM 63 CG GLN A 224 2.383 13.329 61.487 1.00 15.36 ATOM 66 CD GLN A 224 3.857 13.076 61.233 1.00 13.69 ATOM 67 OE1 GLN A 224 4.276 11.933 61.080 1.00 11.58 ATOM 68 NE2 GLN A 224 4.642 14.144 61.171 1.00 12.35 ATOM 71 C GLN A 224 4.642 14.144 61.171 1.00 12.35 ATOM 72 O GLN A 224 -0.856 11.847 59.987 1.00 16.83 ATOM 73 N GLU A 225 -1.044 10.541 59.944 1.00 17.50 ATOM 75 CA GLU A 225 -1.918 9.962 58.938 1.00 18.71 ATOM 76 CB GLU A 225 -0.739 6.189 58.646 1.00 29.83 ATOM 80 CG GLU A 225 -0.739 6.189 58.646 1.00 29.83 ATOM 84 OE1 GLU A 225 -0.739 6.189 58.646 1.00 29.83 ATOM 85 OE2 GLU A 225 -0.739 6.189 58.646 1.00 29.83 ATOM 86 C GLU A 225 -3.972 10.912 58.236 1.00 18.57 ATOM 87 O GLU A 225 -3.972 10.912 58.236 1.00 18.55 ATOM 88 N LEU A 226 -3.788 10.489 60.401 1.00 19.06 ATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 ATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 ATOM 97 CD1 LEU A 226 -5.087 11.076 60.747 1.00 19.54 ATOM 101 CD2 LEU A 226 -6.676 11.739 64.269 1.00 19.84 ATOM 105 C LEU A 226 -6.676 11.739 64.269 1.00 19.84 ATOM 107 N MET A 227 -3.305 15.603 60.675 1.00 20.12 ATOM 111 CB MET A 227 -3.305 15.603 60.675 1.00 21.19 ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	54 C ALA A 223		C
ATOM 58 CA GLN A 224 -0.005 12.423 61.108 1.00 16.16 ATOM 60 CB GLN A 224 1.479 12.350 60.734 1.00 16.24 ATOM 63 CG GLN A 224 2.383 13.329 61.487 1.00 15.36 ATOM 66 CD GLN A 224 3.857 13.076 61.233 1.00 13.69 ATOM 67 OE1 GLN A 224 4.276 11.933 61.080 1.00 11.58 ATOM 68 NE2 GLN A 224 4.642 14.144 61.171 1.00 12.35 ATOM 71 C GLN A 224 -0.856 11.847 59.987 1.00 16.83 ATOM 72 O GLN A 224 -1.344 12.586 59.155 1.00 17.50 ATOM 73 N GLU A 225 -1.044 10.541 59.944 1.00 17.54 ATOM 75 CA GLU A 225 -1.918 9.962 58.938 1.00 18.71 ATOM 76 CB GLU A 225 -0.583 7.718 58.708 1.00 22.22 ATOM 80 CG GLU A 225 -0.583 7.718 58.708 1.00 22.22 ATOM 83 CD GLU A 225 -0.739 6.189 58.646 1.00 27.82 ATOM 84 OE1 GLU A 225 -0.739 6.189 58.646 1.00 29.83 ATOM 85 OE2 GLU A 225 -3.326 10.487 59.160 1.00 18.55 ATOM 86 C GLU A 225 -3.326 10.487 59.160 1.00 18.55 ATOM 87 O GLU A 225 -3.788 10.489 60.401 1.00 19.06 ATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 ATOM 92 CB LEU A 226 -5.087 11.076 60.747 1.00 19.53 ATOM 95 CG LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 97 CD1 LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 97 CD1 LEU A 226 -6.612 11.759 62.761 1.00 19.84 ATOM 101 CD2 LEU A 226 -6.612 11.759 62.761 1.00 19.84 ATOM 105 C LEU A 226 -6.612 11.759 62.761 1.00 19.84 ATOM 107 N MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 109 CA MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 111 CB MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -2.751 16.682 59.708 1.00 23.98	ATOM	55 O ALA A 223	-2.247 12.750 62.660 1.00 14.83	O
ATOM 60 CB GLN A 224 ATOM 63 CG GLN A 224 ATOM 66 CD GLN A 224 ATOM 66 CD GLN A 224 ATOM 67 OEI GLN A 224 ATOM 68 NE2 GLN A 224 ATOM 71 C GLN A 224 ATOM 72 O GLN A 224 ATOM 73 N GLU A 225 ATOM 75 CA GLU A 225 ATOM 76 GLU A 225 ATOM 80 CG GLU A 225 ATOM 80 CG GLU A 225 ATOM 81 CD GLU A 225 ATOM 82 OEI GLU A 225 ATOM 83 CD GLU A 225 ATOM 84 OEI GLU A 225 ATOM 85 OE2 GLU A 225 ATOM 86 C GLU A 225 ATOM 87 O GLU A 225 ATOM 88 N LEU A 226 ATOM 89 CG LEU A 226 ATOM 90 CA LEU A 226 ATOM 90 CA LEU A 226 ATOM 90 CA LEU A 226 ATOM 91 CD LEU A 226 ATOM 90 CA LEU A 226 ATOM 101 CD2 LEU A 226 ATOM 102 C LEU A 226 ATOM 103 C LEU A 226 ATOM 104 CA MET A 227 ATOM 105 C LEU A 226 ATOM 106 O LEU A 226 ATOM 107 N MET A 227 ATOM 111 CB MET A 227 ATOM 114 CG MET A 227 ATOM 117 SD MET	ATOM	56 N GLN A 224		N
ATOM 63 CG GLN A 224 ATOM 66 CD GLN A 224 ATOM 67 OE1 GLN A 224 ATOM 68 NE2 GLN A 224 ATOM 71 C GLN A 224 ATOM 72 O GLN A 224 ATOM 73 N GLU A 225 ATOM 75 CA GLU A 225 ATOM 76 GG GLU A 225 ATOM 80 CG GLU A 225 ATOM 81 CD GLU A 225 ATOM 82 OE1 GLU A 225 ATOM 84 OE1 GLU A 225 ATOM 85 OE2 GLU A 225 ATOM 86 C GLU A 225 ATOM 87 O GLU A 225 ATOM 88 N LEU A 226 ATOM 88 N LEU A 226 ATOM 90 CA LEU A 226 ATOM 90 CA LEU A 226 ATOM 91 CD LEU A 226 ATOM 90 CA LEU A 226 ATOM 91 CD LEU A 226 ATOM 90 CA LEU A 226 ATOM 90 CA LEU A 226 ATOM 91 CD LEU A 226 ATOM 90 CA LEU A 226 ATOM 90 CA LEU A 226 ATOM 91 CD LEU A 226 ATOM 90 CA LEU A 226 ATOM 90 CA LEU A 226 ATOM 91 CD LEU A 226 ATOM 90 CA LEU A 226 ATOM 91 CD LEU A 226 ATOM 90 CA LEU A 226 ATOM 91 CD LEU A 226 ATOM 90 CA LEU A 226 ATOM 91 CD LEU A 226 ATOM 92 CB LEU A 226 ATOM 95 CG LEU A 226 ATOM 96 CG LEU A 226 ATOM 97 CD1 LEU A 226 ATOM 97 CD1 LEU A 226 ATOM 98 C LEU A 226 ATOM 109 CA MET A 227 ATOM 109 CA MET A 227 ATOM 111 CB MET A 227 ATOM 117 SD MET A 227 ATOM 118 CB MET A 227 ATOM 119 CE MET A 227 ATOM 11	ATOM			C
ATOM 66 CD GLN A 224 ATOM 67 OE1 GLN A 224 ATOM 68 NE2 GLN A 224 ATOM 71 C GLN A 224 ATOM 72 O GLN A 224 ATOM 73 N GLU A 225 ATOM 75 CA GLU A 225 ATOM 76 GLU A 225 ATOM 77 CB GLU A 225 ATOM 80 CG GLU A 225 ATOM 80 CG GLU A 225 ATOM 81 OE1 GLU A 225 ATOM 82 OE2 GLU A 225 ATOM 85 OE2 GLU A 225 ATOM 86 C GLU A 225 ATOM 87 O GLU A 225 ATOM 88 N LEU A 226 ATOM 89 CG LEU A 226 ATOM 90 CA LEU A 226 ATOM 90 CA LEU A 226 ATOM 91 CD LEU A 226 ATOM 90 CA LEU A 226 ATOM 90 CA LEU A 226 ATOM 91 CD LEU A 226 ATOM 90 CA LEU A 226 ATOM 91 CD LEU A 226 ATOM 90 CA MET A 227 ATOM 111 CB MET A 227 ATOM 114 CG MET A 227 ATOM 117 SD MET A 227 ATOM 117	ATOM			C
ATOM 67 OE1 GLN A 224	ATOM			C
ATOM 68 NE2 GLN A 224	ATOM			C
ATOM 71 C GLN A 224 -0.856 11.847 59.987 1.00 16.83 C ATOM 72 O GLN A 224 -1.344 12.586 59.155 1.00 17.50 O ATOM 73 N GLU A 225 -1.044 10.541 59.944 1.00 17.54 N ATOM 75 CA GLU A 225 -1.918 9.962 58.938 1.00 18.71 C ATOM 80 CG GLU A 225 -1.919 8.421 58.996 1.00 19.80 C ATOM 83 CD GLU A 225 -0.583 7.718 58.708 1.00 22.22 C ATOM 84 OE1 GLU A 225 -0.739 6.189 58.646 1.00 27.82 C ATOM 85 OE2 GLU A 225 -1.896 5.694 58.806 1.00 29.83 C ATOM 86 C GLU A 225 -3.326 10.487 59.160 1.00 18.57 C ATOM 87 O GLU A 225 -3.972 10.912 58.236 1.00 18.55 O ATOM 88 N LEU A 226 -3.788 10.489 60.401 1.00 19.06 N ATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 C ATOM 95 CG LEU A 226 -6.612 11.759 62.761 1.00 19.44 C ATOM 97 CD1 LEU A 226 -6.676 11.739 64.269 1.00 19.84 C ATOM 101 CD2 LEU A 226 -6.676 11.739 64.269 1.00 19.84 C ATOM 105 C LEU A 226 -6.676 11.739 64.269 1.00 19.84 C ATOM 106 O LEU A 226 -6.391 12.892 59.964 1.00 20.69 C ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.67 ATOM 111 CB MET A 227 -3.305 15.603 60.675 1.00 21.19 ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	67 OE1 GLN A 224		O
ATOM 72 O GLN A 224 -1.344 12.586 59.155 1.00 17.50 O ATOM 73 N GLU A 225 -1.044 10.541 59.944 1.00 17.54 N ATOM 75 CA GLU A 225 -1.918 9.962 58.938 1.00 18.71 C ATOM 80 CG GLU A 225 -0.583 7.718 58.708 1.00 22.22 C ATOM 83 CD GLU A 225 -0.583 7.718 58.708 1.00 22.22 C ATOM 84 OE1 GLU A 225 -0.739 6.189 58.646 1.00 27.82 ATOM 85 OE2 GLU A 225 -1.896 5.694 58.806 1.00 29.83 O.279 5.463 58.427 1.00 29.75 C ATOM 87 O GLU A 225 -3.326 10.487 59.160 1.00 18.57 C ATOM 88 N LEU A 226 -3.788 10.489 60.401 1.00 19.06 N ATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 C ATOM 92 CB LEU A 226 -5.351 11.028 62.260 1.00 19.76 ATOM 97 CD1 LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 97 CD1 LEU A 226 -6.676 11.739 64.269 1.00 19.84 ATOM 105 C LEU A 226 -6.676 11.739 64.269 1.00 19.84 ATOM 105 C LEU A 226 -6.676 11.739 64.269 1.00 19.84 ATOM 106 O LEU A 226 -6.676 11.739 64.269 1.00 19.84 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.69 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.67 ATOM 111 CB MET A 227 -3.305 15.603 60.675 1.00 21.19 ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	68 NE2 GLN A 224		N
ATOM 73 N GLU A 225 -1.044 10.541 59.944 1.00 17.54 N ATOM 75 CA GLU A 225 -1.918 9.962 58.938 1.00 18.71 ATOM 77 CB GLU A 225 -1.919 8.421 58.996 1.00 19.80 ATOM 80 CG GLU A 225 -0.583 7.718 58.708 1.00 22.22 ATOM 83 CD GLU A 225 -0.739 6.189 58.646 1.00 27.82 ATOM 84 OE1 GLU A 225 -1.896 5.694 58.806 1.00 29.83 ATOM 85 OE2 GLU A 225 -1.896 5.694 58.806 1.00 29.83 ATOM 86 C GLU A 225 -3.326 10.487 59.160 1.00 18.57 ATOM 87 O GLU A 225 -3.972 10.912 58.236 1.00 18.55 ATOM 88 N LEU A 226 -3.788 10.489 60.401 1.00 19.06 ATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 ATOM 92 CB LEU A 226 -5.351 11.028 62.260 1.00 19.76 ATOM 95 CG LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 97 CD1 LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 101 CD2 LEU A 226 -6.676 11.739 64.269 1.00 18.94 ATOM 105 C LEU A 226 -6.391 12.892 59.964 1.00 20.69 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.12 ATOM 109 CA MET A 227 -4.260 13.348 60.435 1.00 20.12 ATOM 111 CB MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 111 CB MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	71 C GLN A 224		C
ATOM 75 CA GLU A 225 -1.918 9.962 58.938 1.00 18.71 CATOM 77 CB GLU A 225 -1.919 8.421 58.996 1.00 19.80 CATOM 80 CG GLU A 225 -0.583 7.718 58.708 1.00 22.22 CATOM 83 CD GLU A 225 -0.739 6.189 58.646 1.00 27.82 CATOM 84 OE1 GLU A 225 -1.896 5.694 58.806 1.00 29.83 ATOM 85 OE2 GLU A 225 -1.896 5.694 58.806 1.00 29.83 ATOM 86 C GLU A 225 -3.326 10.487 59.160 1.00 18.57 CATOM 87 O GLU A 225 -3.972 10.912 58.236 1.00 18.55 ATOM 88 N LEU A 226 -3.788 10.489 60.401 1.00 19.06 NATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 ATOM 92 CB LEU A 226 -5.351 11.028 62.260 1.00 19.76 ATOM 95 CG LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 97 CD1 LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 97 CD1 LEU A 226 -6.676 11.739 64.269 1.00 18.94 ATOM 105 C LEU A 226 -6.676 11.739 64.269 1.00 18.94 ATOM 106 O LEU A 226 -6.391 12.892 59.964 1.00 20.78 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.12 ATOM 111 CB MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 111 CB MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	72 O GLN A 224	-1.344 12.586 59.155 1.00 17.50	О
ATOM 77 CB GLU A 225 -1.919 8.421 58.996 1.00 19.80 C ATOM 80 CG GLU A 225 -0.583 7.718 58.708 1.00 22.22 C ATOM 83 CD GLU A 225 -0.739 6.189 58.646 1.00 27.82 ATOM 84 OE1 GLU A 225 -1.896 5.694 58.806 1.00 29.83 ATOM 85 OE2 GLU A 225 0.279 5.463 58.427 1.00 29.75 ATOM 86 C GLU A 225 -3.326 10.487 59.160 1.00 18.57 C ATOM 87 O GLU A 225 -3.972 10.912 58.236 1.00 18.55 O ATOM 88 N LEU A 226 -3.788 10.489 60.401 1.00 19.06 N ATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 ATOM 92 CB LEU A 226 -5.351 11.028 62.260 1.00 19.76 ATOM 95 CG LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 97 CD1 LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 97 CD1 LEU A 226 -6.676 11.739 64.269 1.00 18.94 ATOM 101 CD2 LEU A 226 -6.676 11.739 64.269 1.00 18.94 ATOM 105 C LEU A 226 -6.676 11.739 64.269 1.00 19.84 CATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.12 ATOM 109 CA MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 111 CB MET A 227 -3.305 15.603 60.675 1.00 21.19 ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	73 N GLU A 225	-1.044 10.541 59.944 1.00 17.54	N
ATOM 80 CG GLU A 225 -0.583 7.718 58.708 1.00 22.22 CATOM 83 CD GLU A 225 -0.739 6.189 58.646 1.00 27.82 CATOM 84 OE1 GLU A 225 -1.896 5.694 58.806 1.00 29.83 ATOM 85 OE2 GLU A 225 0.279 5.463 58.427 1.00 29.75 ATOM 86 C GLU A 225 -3.326 10.487 59.160 1.00 18.57 ATOM 87 O GLU A 225 -3.972 10.912 58.236 1.00 18.55 OATOM 88 N LEU A 226 -3.788 10.489 60.401 1.00 19.06 NATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 ATOM 92 CB LEU A 226 -5.351 11.028 62.260 1.00 19.76 ATOM 95 CG LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 97 CD1 LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 97 CD1 LEU A 226 -6.676 11.739 64.269 1.00 18.94 ATOM 105 C LEU A 226 -6.676 11.739 64.269 1.00 18.94 ATOM 105 C LEU A 226 -6.391 12.892 59.964 1.00 20.69 ATOM 107 N MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 111 CB MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	75 CA GLU A 225	-1.918 9.962 58.938 1.00 18.71	C
ATOM 83 CD GLU A 225 -0.739 6.189 58.646 1.00 27.82 ATOM 84 OE1 GLU A 225 -1.896 5.694 58.806 1.00 29.83 ATOM 85 OE2 GLU A 225 0.279 5.463 58.427 1.00 29.75 ATOM 86 C GLU A 225 -3.326 10.487 59.160 1.00 18.57 ATOM 87 O GLU A 225 -3.972 10.912 58.236 1.00 18.55 ATOM 88 N LEU A 226 -3.788 10.489 60.401 1.00 19.06 ATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 ATOM 92 CB LEU A 226 -5.351 11.028 62.260 1.00 19.76 ATOM 95 CG LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 97 CD1 LEU A 226 -6.676 11.739 64.269 1.00 18.94 ATOM 101 CD2 LEU A 226 -6.391 12.892 59.964 1.00 20.78 ATOM 106 O LEU A 226 -6.391 12.892 59.964 1.00 20.69 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.12 ATOM 109 CA MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 111 CB MET A 227 -3.305 15.603 60.675 1.00 21.19 ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	77 CB GLU A 225	-1.919 8.421 58.996 1.00 19.80	C
ATOM 84 OE1 GLU A 225 -1.896 5.694 58.806 1.00 29.83 ATOM 85 OE2 GLU A 225 0.279 5.463 58.427 1.00 29.75 ATOM 86 C GLU A 225 -3.326 10.487 59.160 1.00 18.57 ATOM 87 O GLU A 225 -3.972 10.912 58.236 1.00 18.55 ATOM 88 N LEU A 226 -3.788 10.489 60.401 1.00 19.06 ATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 ATOM 92 CB LEU A 226 -5.351 11.028 62.260 1.00 19.76 ATOM 95 CG LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 97 CD1 LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 97 CD1 LEU A 226 -6.676 11.739 64.269 1.00 18.94 ATOM 101 CD2 LEU A 226 -6.391 12.892 59.964 1.00 20.69 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.12 ATOM 109 CA MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 111 CB MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	80 CG GLU A 225		C
ATOM 85 OE2 GLU A 225 0.279 5.463 58.427 1.00 29.75 CATOM 86 C GLU A 225 -3.326 10.487 59.160 1.00 18.57 CATOM 87 O GLU A 225 -3.972 10.912 58.236 1.00 18.55 OATOM 88 N LEU A 226 -3.788 10.489 60.401 1.00 19.06 NATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 ATOM 92 CB LEU A 226 -5.351 11.028 62.260 1.00 19.76 ATOM 95 CG LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 97 CD1 LEU A 226 -6.676 11.109 62.149 1.00 20.78 ATOM 101 CD2 LEU A 226 -6.676 11.739 64.269 1.00 18.94 ATOM 105 C LEU A 226 -6.391 12.892 59.964 1.00 20.69 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.12 ATOM 109 CA MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 111 CB MET A 227 -3.305 15.603 60.675 1.00 21.19 ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	83 CD GLU A 225		С
ATOM 86 C GLU A 225 -3.326 10.487 59.160 1.00 18.57 C ATOM 87 O GLU A 225 -3.972 10.912 58.236 1.00 18.55 O ATOM 88 N LEU A 226 -3.788 10.489 60.401 1.00 19.06 N ATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 O ATOM 92 CB LEU A 226 -5.351 11.028 62.260 1.00 19.76 O ATOM 95 CG LEU A 226 -6.612 11.759 62.761 1.00 19.44 O ATOM 97 CD1 LEU A 226 -6.676 11.759 62.761 1.00 19.44 O ATOM 101 CD2 LEU A 226 -6.676 11.739 64.269 1.00 18.94 O ATOM 105 C LEU A 226 -5.283 12.516 60.326 1.00 19.84 O ATOM 106 O LEU A 226 -6.391 12.892 59.964 1.00 20.69 O ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.12 O ATOM 109 CA MET A 227 -4.448 14.759 60.126 1.00 20.67 O ATOM 111 CB MET A 227 -3.305 15.603 60.675 1.00 21.19 O ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 O ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	84 OE1 GLU A 225		О
ATOM 87 O GLU A 225 -3.972 10.912 58.236 1.00 18.55 ATOM 88 N LEU A 226 -3.788 10.489 60.401 1.00 19.06 ATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 ATOM 92 CB LEU A 226 -5.351 11.028 62.260 1.00 19.76 ATOM 95 CG LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 97 CD1 LEU A 226 -6.676 11.739 64.269 1.00 18.94 ATOM 101 CD2 LEU A 226 -6.676 11.739 64.269 1.00 18.94 ATOM 105 C LEU A 226 -5.283 12.516 60.326 1.00 19.84 ATOM 106 O LEU A 226 -6.391 12.892 59.964 1.00 20.69 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.12 ATOM 109 CA MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 111 CB MET A 227 -3.305 15.603 60.675 1.00 21.19 ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	85 OE2 GLU A 225		O
ATOM 88 N LEU A 226 -3.788 10.489 60.401 1.00 19.06 N ATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 CATOM 92 CB LEU A 226 -5.351 11.028 62.260 1.00 19.76 ATOM 95 CG LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 97 CD1 LEU A 226 -7.866 11.109 62.149 1.00 20.78 ATOM 101 CD2 LEU A 226 -6.676 11.739 64.269 1.00 18.94 ATOM 105 C LEU A 226 -5.283 12.516 60.326 1.00 19.84 ATOM 106 O LEU A 226 -6.391 12.892 59.964 1.00 20.69 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.12 ATOM 109 CA MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 111 CB MET A 227 -3.305 15.603 60.675 1.00 21.19 ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	86 C GLU A 225		
ATOM 90 CA LEU A 226 -5.087 11.076 60.747 1.00 19.53 ATOM 92 CB LEU A 226 -5.351 11.028 62.260 1.00 19.76 ATOM 95 CG LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 97 CD1 LEU A 226 -7.866 11.109 62.149 1.00 20.78 ATOM 101 CD2 LEU A 226 -6.676 11.739 64.269 1.00 18.94 ATOM 105 C LEU A 226 -5.283 12.516 60.326 1.00 19.84 ATOM 106 O LEU A 226 -6.391 12.892 59.964 1.00 20.69 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.12 ATOM 109 CA MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 111 CB MET A 227 -3.305 15.603 60.675 1.00 21.19 ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM			
ATOM 92 CB LEU A 226 -5.351 11.028 62.260 1.00 19.76 ATOM 95 CG LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 97 CD1 LEU A 226 -7.866 11.109 62.149 1.00 20.78 ATOM 101 CD2 LEU A 226 -6.676 11.739 64.269 1.00 18.94 ATOM 105 C LEU A 226 -5.283 12.516 60.326 1.00 19.84 ATOM 106 O LEU A 226 -6.391 12.892 59.964 1.00 20.69 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.12 ATOM 109 CA MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 111 CB MET A 227 -3.305 15.603 60.675 1.00 21.19 ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	88 N LEUA 226	-3.788 10.489 60.401 1.00 19.06	N
ATOM 95 CG LEU A 226 -6.612 11.759 62.761 1.00 19.44 ATOM 97 CD1 LEU A 226 -7.866 11.109 62.149 1.00 20.78 ATOM 101 CD2 LEU A 226 -6.676 11.739 64.269 1.00 18.94 ATOM 105 C LEU A 226 -5.283 12.516 60.326 1.00 19.84 ATOM 106 O LEU A 226 -6.391 12.892 59.964 1.00 20.69 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.12 ATOM 109 CA MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 111 CB MET A 227 -3.305 15.603 60.675 1.00 21.19 ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	90 CA LEU A 226		C
ATOM 97 CD1 LEU A 226 -7.866 11.109 62.149 1.00 20.78 ATOM 101 CD2 LEU A 226 -6.676 11.739 64.269 1.00 18.94 ATOM 105 C LEU A 226 -5.283 12.516 60.326 1.00 19.84 ATOM 106 O LEU A 226 -6.391 12.892 59.964 1.00 20.69 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.12 ATOM 109 CA MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 111 CB MET A 227 -3.305 15.603 60.675 1.00 21.19 ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	92 CB LEU A 226		С
ATOM 101 CD2 LEU A 226 -6.676 11.739 64.269 1.00 18.94 ATOM 105 C LEU A 226 -5.283 12.516 60.326 1.00 19.84 C ATOM 106 O LEU A 226 -6.391 12.892 59.964 1.00 20.69 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.12 ATOM 109 CA MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 111 CB MET A 227 -3.305 15.603 60.675 1.00 21.19 ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	95 CG LEU A 226		С
ATOM 105 C LEU A 226 -5.283 12.516 60.326 1.00 19.84 C ATOM 106 O LEU A 226 -6.391 12.892 59.964 1.00 20.69 ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.12 ATOM 109 CA MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 111 CB MET A 227 -3.305 15.603 60.675 1.00 21.19 ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33		97 CD1 LEU A 226		C
ATOM 106 O LEU A 226 -6.391 12.892 59.964 1.00 20.69 O ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.12 ATOM 109 CA MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 111 CB MET A 227 -3.305 15.603 60.675 1.00 21.19 ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	101 CD2 LEU A 226		С
ATOM 107 N MET A 227 -4.260 13.348 60.435 1.00 20.12 N ATOM 109 CA MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 111 CB MET A 227 -3.305 15.603 60.675 1.00 21.19 ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	105 C LEU A 226		С
ATOM 109 CA MET A 227 -4.448 14.759 60.126 1.00 20.67 ATOM 111 CB MET A 227 -3.305 15.603 60.675 1.00 21.19 ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33	ATOM	106 O LEU A 226		О
ATOM 111 CB MET A 227 -3.305 15.603 60.675 1.00 21.19 ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33		107 N MET A 227	•	N
ATOM 114 CG MET A 227 -2.751 16.682 59.708 1.00 23.98 ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33				C
ATOM 117 SD MET A 227 -1.252 17.480 60.399 1.00 30.33				С
• -				C
ATOM 118 CE MET A 227 -1.757 17.793 62.100 1.00 29.41				S
	ATOM	118 CE MET A 227	-1.757 17.793 62.100 1.00 29.41	C

ATOM	122	C MET A 227	-4.578 14.927 58.616 1.00 20.11	C
ATOM	123	O MET A 227	-5.464 15.629 58.148 1.00 20.30	Ο
ATOM	124	N ILE A 228	-3.705 14.257 57.878 1.00 19.29	N
ATOM	126	CA ILE A 228	-3.665 14.351 56.445 1.00 19.09	С
ATOM	128	CB ILE A 228	-2.382 13.726 55.921 1.00 19.07	C
ATOM	130	CG1 ILE A 228	-1.179 14.615 56.251 1.00 19.28	С
ATOM	133	CD1 ILE A 228	0.158 13.963 55.932 1.00 19.23	C
ATOM	137	CG2 ILE A 228	-2.494 13.479 54.411 1.00 19.58	C
<b>ATOM</b>	141	C ILE A 228 -	4.863 13.670 55.794 1.00 19.43	C
ATOM	142	O ILE A 228	-5.418 14.211 54.868 1.00 20.34	Ο
ATOM	143	N GLN A 229	-5.256 12.477 56.223 1.00 18.90	N
ATOM	145	CA GLN A 229	-6.478 11.882 55.706 1.00 18.96	C
<b>ATOM</b>	147	CB GLN A 229	-6.771 10.577 56.413 1.00 19.24	C
ATOM	150	CG GLN A 229	-6.067 9.435 55.768 1.00 21.27	C
ATOM	153	CD GLN A 229	-6.010 8.229 56.651 1.00 24.10	C
ATOM	154	OE1 GLN A 229	-6.948 7.971 57.423 1.00 25.47	О
ATOM	155	NE2 GLN A 229	-4.905 7.479 56.560 1.00 25.45	N
ATOM	158	C GLN A 229	-7.702 12.769 55.845 1.00 18.55	C
<b>ATOM</b>	159	O GLN A 229	-8.583 12.732 55.011 1.00 18.22	Ο
ATOM	160	N GLN A 230	-7.744 13.532 56.930 1.00 18.60	N.
ATOM	162	CA GLN A 230	-8.860 14.389 57.301 1.00 18.80	C
ATOM	164	CB GLN A 230	-8.659 14.919 58.749 1.00 19.79	С
ATOM	167	CG GLN A 230	-9.251 16.327 59.108 1.00 21.29	C
ATOM	170	CD GLN A 230	-10.690 16.230 59.571 1.00 24.64	С
ATOM	171	OE1 GLN A 230	-11.138 15.164 59.996 1.00 25.60	0
ATOM	172	NE2 GLN A 230	-11.427 17.336 59.477 1.00 28.35	N
ATOM	175	C GLN A 230	-8.945 15.538 56.342 1.00 18.30	C
ATOM	176		-10.029 15.844 55.865 1.00 18.40	Ο
ATOM		N LEU A 231	-7.800 16.196 56.106 1.00 17.65	N
ATOM		CA LEU A 231	-7.691 17.326 55.185 1.00 17.02	С
ATOM		CB LEU A 231	-6.276 17.900 55.178 1.00 17.01	C
ATOM		CG LEU A 231	-5.827 18.554 56.489 1.00 17.61	С
ATOM		CD1 LEU A 231	-4.435 19.164 56.398 1.00 17.30	С
ATOM			-6.815 19.591 56.908 1.00 18.68	С
ATOM		C LEU A 231	-8.079 16.910 53.787 1.00 16.54	С
ATOM	195		-8.848 17.571 53.144 1.00 16.65	Ο
ATOM		N VAL A 232	-7.589 15.776 53.337 1.00 16.28	N
ATOM		CA VAL A 232	-7.975 15.264 52.034 1.00 16.26	С
ATOM		CB VAL A 232	-7.091 14.080 51.598 1.00 16.22	С
ATOM		CG1 VAL A 232	-7.585 13.491 50.281 1.00 15.39	С
ATOM		CG2 VAL A 232	-5.639 14.571 51.447 1.00 16.49	C
ATOM		C VAL A 232	-9.463 14.925 51.955 1.00 15.99	C
ATOM		O VAL A 232	-10.106 15.228 50.942 1.00 15.95	O
ATOM	212		-10.010 14.319 53.006 1.00 15.67	N
ATOM		CA ALA A 233	-11.416 13.939 53.011 1.00 15.76	C
ATOM		CB ALA A 233	-11.722 13.041 54.167 1.00 15.74	C
ATOM		C ALA A 233	-12.328 15.169 53.046 1.00 16.33	C
ATOM	221		-13.417 15.150 52.468 1.00 15.95	Ō
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-11.893 16.231 53.720 1.00 16.96 N 222 N ALA A 234 ATOM -12.667 17.465 53.756 1.00 17.94 C ATOM 224 CA ALA A 234 -12.205 18.373 54.910 1.00 18.20 ATOM 226 CB ALA A 234 C -12.598 18.207 52.407 1.00 18.44  $\mathbf{C}$ ATOM 230 C ALA A 234 ATOM 231 O ALA A 234 -13.595 18.714 51.965 1.00 18.63 0 ATOM 232 N GLN A 235 -11.438 18.261 51.762 1.00 19.00 N -11.303 18.837 50.425 1.00 20.04 • C ATOM 234 CA GLN A 235 -9.856 18.674 49.997 1.00 20.79  $\mathbf{C}$ ATOM 236 CB GLN A 235 -9.379 19.327 48.715 1.00 24.06 C ATOM 239 CG GLN A 235 ATOM 242 CD GLN A 235 -7.796 19.466 48.697 1.00 30.93 C -7.021 18.452 48.747 1.00 31.11 0 ATOM 243 OE1 GLN A 235 -7.336 20.724 48.634 1.00 34.09 ATOM 244 NE2 GLN A 235 N -12.213 18.115 49.435 1.00 19.95  $\mathbf{C}$ ATOM 247 C GLN A 235 -12.927 18.720 48.655 1.00 19.27 0 ATOM 248 O GLN A 235 ATOM 249 N LEU A 236 -12.199 16.800 49.490 1.00 20.56 N ATOM 251 CA LEU A 236 -13.036 16.017 48.616 1.00 21.32 C -12.757 14.522 48.786 1.00 21.67 C ATOM 253 CB LEU A 236 -13.341 13.700 47.626 1.00 24.13 C ATOM 256 CG LEU A 236 C ATOM 258 CD1 LEU A 236 -12.335 13.718 46.450 1.00 25.57 C -13.777 12.237 48.015 1.00 25.18 ATOM 262 CD2 LEU A 236 ATOM 266 C LEU A 236 -14.518 16.309 48.845 1.00 21.68 C -15.252 16.390 47.872 1.00 22.07 0 ATOM 267 O LEU A 236 -14.958 16.451 50.105 1.00 21.96 ATOM 268 N GLN A 237 N -16.373 16.687 50.431 1.00 22.24 C ATOM 270 CA GLN A 237 C ATOM 272 CB GLN A 237 -16.683 16.470 51.923 1.00 22.91 -16.664 14.997 52.379 1.00 26.71 C ATOM 275 CG GLN A 237 C ATOM 278 CD GLN A 237 -16.470 14.773 53.913 1.00 30.99 ATOM 279 OE1 GLN A 237 -16.674 13.640 54.381 1.00 33.33 0 N -16.075 15.829 54.678 1.00 31.61 ATOM 280 NE2 GLN A 237 -16.746 18.097 50.095 1.00 21.57 C ATOM 283 C GLN A 237 -17.875 18.381 49.779 1.00 21.64 ATOM 284 O GLN A 237 0 ATOM 285 N CYS A 238 -15.803 19.001 50.189 1.00 21.37 N ATOM 287 CA CYS A 238 -16.106 20.382 49.933 1.00 21.90 C C ATOM 289 CB CYS A 238 -14.933 21.268 50.319 1.00 22.20 S -15.030 21.765 52.027 1.00 21.86 ATOM 292 SG CYS A 238 -16.385 20.508 48.468 1.00 22.29 C ATOM 293 C CYS A 238 -17.288 21.221 48.050 1.00 21.90 0 ATOM 294 O CYS A 238 ATOM 295 N ASN A 239 -15.590 19.792 47.691 1.00 22.98 N ATOM 297 CA ASN A 239 -15.691 19.869 46.261 1.00 23.73 C -14.463 19.232 45.582 1.00 24.05 C ATOM 299 CB ASN A 239 -14.287 19.708 44.128 1.00 25.70  $\mathbf{C}$ ATOM 302 CG ASN A 239 -14.637 18.983 43.188 1.00 27.70 0 ATOM 303 OD1 ASN A 239 ATOM 304 ND2 ASN A 239 -13.789 20.943 43.945 1.00 27.04 N -17.009 19.263 45.802 1.00 23.69 C ATOM 307 C ASN A 239 -17.703 19.853 44.986 1.00 24.39 0 ATOM 308 O ASN A 239 ATOM 309 N LYS A 240 -17.364 18.107 46.354 1.00 23.59 N -18.609 17.421 46.030 1.00 23.52 C ATOM 311 CA LYS A 240 ATOM 313 CB LYS A 240 -18.719 16.127 46.843 1.00 23.44

ATOM	316 CG LYS A 240 -1	19.950 15.300 46.541 1.00 24.05	C
ATOM	319 CD LYS A 240 -1	19.746 13.876 46.958 1.00 25.71	С
ATOM		0.932 13.010 46.622 1.00 26.90	С
ATOM		21.540 12.446 47.847 1.00 27.75	N
ATOM		9.799 18.308 46.338 1.00 23.67	C
ATOM		0.731 18.394 45.562 1.00 23.66	O
ATOM		9.740 18.962 47.490 1.00 24.06	N
ATOM		20.796 19.842 47.995 1.00 24.47	С
ATOM		20.450 20.278 49.431 1.00 24.96	С
ATOM		21.613 20.328 50.388 1.00 25.97	С
ATOM		21.267 20.916 51.747 1.00 27.73	С
ATOM	5 /1 02 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22.165 22.017 52.101 1.00 28.90	N
ATOM		23.486 21.893 52.299 1.00 30.39	С
ATOM		-24.108 20.712 52.181 1.00 29.33	N
ATOM		-24.200 22.966 52.626 1.00 32.01	N
ATOM		0.977 21.097 47.158 1.00 24.33	C
ATOM		22.088 21.443 46.784 1.00 23.85	0
ATOM		9.870 21.774 46.881 1.00 24.71	N
ATOM		19.893 23.054 46.200 1.00 25.36	C
ATOM		18.654 23.864 46.556 1.00 25.33	Ċ
ATOM		18.673 24.276 47.912 1.00 26.26	O
ATOM		9.996 22.949 44.688 1.00 26.01	C
ATOM		0.468 23.892 44.059 1.00 26.36	Ŏ
ATOM		9.577 21.818 44.109 1.00 26.84	N
ATOM		19.363 21.702 42.654 1.00 27.40	C
ATOM		17.893 21.962 42.281 1.00 27.57	Č
ATOM		17.476 23.401 42.388 1.00 28.48	Č
ATOM		-16.406 23.768 43.192 1.00 30.26	C
	- · · - · · · · · · · · · · · · · · · ·	16.017 25.108 43.293 1.00 31.11	Č
ATOM	• . • • • • • • • • • •	16.693 26.079 42.573 1.00 32.32	c
ATOM	• • • • • • • • • • • • • • • • • • • •	17.761 25.717 41.751 1.00 30.72	C
ATOM ATOM		-18.138 24.386 41.669 1.00 30.00	C
		9.744 20.350 42.078 1.00 27.70	c
ATOM	•	9.065 19.865 41.173 1.00 28.04	Ö
ATOM		0.810 19.740 42.593 1.00 27.94	N
ATOM	500 1	21.388 18.561 41.956 1.00 27.89	C
ATOM		22.038 17.617 42.969 1.00 27.89	Č
ATOM		21.132 16.641 43.439 1.00 27.71	Ö
ATOM		2.440 19.069 41.004 1.00 28.11	c
ATOM		2.398 18.799 39.810 1.00 28.08	Ö
ATOM		3.390 19.814 41.554 1.00 28.48	N
ATOM		24.489 20.374 40.772 1.00 28.58	C
ATOM		25.670 20.703 41.695 1.00 28.69	C
ATOM			C
ATOM		26.367 19.446 42.218 1.00 29.20 -27.256 18.917 41.510 1.00 29.63	
ATOM			0
ATOM		-26.089 18.909 43.312 1.00 29.52	0
ATOM		4.038 21.605 39.973 1.00 28.43	С
ATOM	408 O ASP A 245 -2	2.985 22.187 40.235 1.00 28.14	О

<b>ATOM</b>	409 N GLN A 246 -24	.833 21.973 38.976 1.00 28.73	N
ATOM	411 CA GLN A 246 -2	4.511 23.105 38.107 1.00 28.73	С
ATOM	413 CB GLN A 246 -2:	5.515 23.249 36.951 1.00 28.69	С
ATOM	416 CG GLN A 246 -2	5.610 22.033 36.023 1.00 28.33	C
ATOM		4.579 22.068 34.924 1.00 27.89	С
ATOM		24.870 22.489 33.813 1.00 28.50	Ο
ATOM		23.371 21.640 35.231 1.00 27.73	N
ATOM		.553 24.338 38.970 1.00 28.78	C
ATOM		.427 24.478 39.811 1.00 28.84	Ō
ATOM		.599 25.231 38.798 1.00 29.14	N
ATOM		3.559 26.416 39.647 1.00 29.46	Ċ
ATOM		2.168 27.006 39.357 1.00 29.77	č
		1.788 26.494 37.996 1.00 29.30	Č
ATOM		2.499 25.198 37.818 1.00 29.08	Č
ATOM			C
ATOM		.706 27.351 39.273 1.00 29.76	0
ATOM		.155 27.321 38.121 1.00 30.08	
ATOM		.215 28.119 40.234 1.00 30.00	N
ATOM		6.221 29.139 39.937 1.00 30.26	C
ATOM		7.101 29.417 41.162 1.00 30.54	C
ATOM	• • •	7.941 28.210 41.639 1.00 31.56	C
ATOM		9.123 28.610 42.571 1.00 32.74	C
<b>ATOM</b>		0.244 27.556 42.530 1.00 33.52	C
<b>ATOM</b>	456 NZ LYS A 248 -31	1.375 27.849 43.451 1.00 33.69	N
<b>ATOM</b>	460 C LYS A 248 -25.	.450 30.386 39.495 1.00 30.08	С
ATOM	461 O LYS A 248 -24	.799 31.051 40.310 1.00 30.32	О
ATOM	462 N VAL A 249 -25	5.448 30.660 38.193 1.00 29.61	N
ATOM	464 CA VAL A 249 -2	4.593 31.712 37.651 1.00 29.25	C
ATOM	466 CB VAL A 249 -2	3.202 31.196 37.179 1.00 29.50	С
ATOM		22.100 32.141 37.639 1.00 30.10	С
ATOM		22.892 29.825 37.697 1.00 29.90	С
ATOM		.223 32.380 36.464 1.00 28.77	С
ATOM		5.831 31.723 35.622 1.00 29.22	O
ATOM		.075 33.699 36.407 1.00 28.20	N
ATOM		5.410 34.463 35.222 1.00 27.53	C
ATOM		4.740 35.840 35.274 1.00 27.36	Č
ATOM		25.260 36.595 36.371 1.00 26.90	Ō
ATOM		25.106 36.681 34.074 1.00 27.81	Č
		.870 33.663 34.057 1.00 27.36	c
ATOM	· ·	6.683 33.365 34.035 1.00 26.84	Ö
ATOM			N
ATOM		737 33.270 33.121 1.00 27.46	
ATOM		5.312 32.536 31.920 1.00 27.22	C
ATOM		6.579 32.520 31.054 1.00 27.39	C
ATOM		7.719 32.783 31.974 1.00 27.38	C
ATOM		7.194 33.507 33.148 1.00 27.33	C
ATOM		.175 33.238 31.155 1.00 27.16	C
ATOM		.321 34.425 30.816 1.00 26.96	Ο
ATOM		.076 32.518 30.892 1.00 27.01	N
ATOM	508 CA TRP A 252 -2	1.942 33.047 30.113 1.00 26.96	С

ATOM	510 CB TRP A 252 -2	20.742 32.086 30.209 1.00 27.01	С
ATOM	513 CG TRP A 252 -:	19.466 32.589 29.544 1.00 27.07	C
ATOM	514 CD1 TRP A 252 -	19.056 32.336 28.274 1.00 27.45	С
ATOM	516 NE1 TRP A 252 -	17.856 32.956 28.023 1.00 27.64	N
ATOM		17.464 33.628 29.147 1.00 27.28	C
ATOM		18.451 33.412 30.128 1.00 27.12	C
ATOM		18.274 33.994 31.386 1.00 26.88	С
ATOM		17.149 34.752 31.625 1.00 26.34	С
ATOM		16.190 34.951 30.630 1.00 27.03	C
ATOM		16.328 34.397 29.383 1.00 27.06	С
ATOM		2.364 33.291 28.641 1.00 27.00	C
ATOM		2.650 32.340 27.914 1.00 26.88	O
ATOM	530 N PRO A 253 -2	2.413 34.552 28.207 1.00 27.02	N
ATOM	531 CA PRO A 253	23.075 34.923 26.944 1.00 27.13	С
ATOM	533 CR PRO A 253 -	22.633 36.369 26.740 1.00 26.99	Ċ
ATOM	536 CG PRO A 253	22.425 36.862 28.122 1.00 27.20	C
ATOM	530 CD PRO A 253	21.846 35.730 28.887 1.00 26.96	C
ATOM		2.783 34.037 25.707 1.00 27.29	C
ATOM		1.842 34.201 24.927 1.00 27.33	Ö
ATOM	544 NI AI A A 261 -2	21.033 46.340 25.423 1.00 34.78	N
ATOM	546 CA AI A A 261	21.278 46.695 26.824 1.00 34.81	C
ATOM	540 CR ALA A 261	21.883 48.098 26.916 1.00 34.71	č
		2.192 45.678 27.518 1.00 34.78	C
ATOM	552 O ALA A 261 -2	22.029 45.385 28.711 1.00 34.60	Ö
ATOM ATOM	554 N ASP A 262 -2	3.157 45.159 26.758 1.00 34.77	Ň
		24.179 44.243 27.275 1.00 34.61	C
ATOM ATOM		24.954 43.597 26.105 1.00 34.57	č
ATOM		25.879 44.587 25.373 1.00 34.47	Č
ATOM		-25.775 45.805 25.617 1.00 34.39	Ö
ATOM	562 OD2 ASP A 262	-26.744 44.240 24.536 1.00 33.23	ŏ
		3.557 43.156 28.157 1.00 34.44	c
ATOM		3.923 43.001 29.321 1.00 34.35	Ö
ATOM ATOM		22.580 42.450 27.588 1.00 34.23	N
		-21.996 41.235 28.170 1.00 33.99	C
ATOM ATOM	570 CP ALA A 263	21.838 40.178 27.079 1.00 34.09	č
	574 C ALA A 263 -2	20.650 41.464 28.862 1.00 33.70	c
ATOM		19.984 40.498 29.269 1.00 33.64	Ö
ATOM	• • • • • • • • • • • •	20.243 42.737 28.941 1.00 33.29	N
ATOM	• · • • · · · · · · · · · · · · · · · ·	-19.097 43.178 29.743 1.00 32.67	C
ATOM	2,0 011 1-10	-18.804 44.674 29.510 1.00 32.96	č
ATOM		-17.716 44.953 28.482 1.00 34.81	Č
ATOM	• • • • • • • • • • • • • • • • • • • •	-16.292 44.666 29.000 1.00 37.32	C
ATOM		-15.342 44.361 27.918 1.00 39.57	N
ATOM		-14.061 44.011 28.100 1.00 40.37	C
ATOM		-13.558 43.920 29.324 1.00 41.07	N
ATOM	592 NH1 ARG A 264	-13.278 43.754 27.055 1.00 40.24	N
ATOM	595 NH2 ARG A 264	-13.278 43.734 27.033 1.00 40.24 19.434 42.929 31.210 1.00 31.60	C
ATOM		18.705 42.225 31.911 1.00 31.31	0
ATOM	599 O ARG A 264 -	10./03 42.223 31.311 1.00 31.31	J

-20.561 43.501 31.648 1.00 30.27 600 N GLN A 265 N ATOM -21.079 43.287 32.999 1.00 29.10  $\mathbf{C}$ 602 CA GLN A 265 ATOM  $\mathbf{C}$ 604 CB GLN A 265 -22.249 44.239 33.319 1.00 28.98 ATOM -21.818 45.574 33.976 1.00 29.73 C 607 CG GLN A 265 ATOM C -22.270 46.818 33.191 1.00 30.32 610 CD GLN A 265 ATOM -22.950 47.694 33.738 1.00 30.04 0 611 OE1 GLN A 265 **ATOM** -21.885 46.895 31.917 1.00 30.05 N 612 NE2 GLN A 265 ATOM -21.499 41.839 33.219 1.00 27.75 C ATOM 615 C GLN A 265 -21.334 41.328 34.314 1.00 27.82 0 616 O GLN A 265 **ATOM** -22.022 41.181 32.187 1.00 26.21 N ATOM 617 N GLN A 266 -22.527 39.808 32.321 1.00 24.92 C 619 CA GLN A 266 **ATOM** -23.344 39.381 31.094 1.00 24.75 C 621 CB GLN A 266 ATOM -24.787 38.953 31.377 1.00 24.16 C 624 CG GLN A 266 ATOM -25.723 39.314 30.227 1.00 23.84 C 627 CD GLN A 266 ATOM ATOM 628 OE1 GLN A 266 -26.764 39.936 30.434 1.00 23.51 0 -25.338 38.943 29.011 1.00 23.56 N 629 NE2 GLN A 266 **ATOM** ATOM 632 C GLN A 266 -21.408 38.795 32.554 1.00 24.04 C -21.592 37.849 33.317 1.00 23.90 633 O GLN A 266 0 ATOM -20.260 38.978 31.902 1.00 22.85 N 634 N ARG A 267 ATOM -19.143 38.031 32.058 1.00 21.84 C 636 CA ARG A 267 ATOM -18.154 38.137 30.883 1.00 21.71 C 638 CB ARG A 267 ATOM ATOM 641 CG ARG A 267 -18.580 37.268 29.730 1.00 22.50 C -17.832 37.435 28.429 1.00 23.45 C 644 CD ARG A 267 ATOM -18.674 36.954 27.323 1.00 24.84 N 647 NE ARG A 267 ATOM -18.259 36.692 26.082 1.00 24.64 C **ATOM** 649 CZ ARG A 267 -16.991 36.857 25.733 1.00 25.31 N 650 NH1 ARG A 267 ATOM -19.126 36.262 25.180 1.00 23.40 N 653 NH2 ARG A 267 ATOM 656 C ARG A 267 -18.457 38.232 33.414 1.00 20.83  $\mathbf{C}$ ATOM -18.025 37.274 34.054 1.00 20.47 O 657 O ARG A 267 ATOM -18.387 39.496 33.831 1.00 19.89 N 658 N PHE A 268 ATOM C 660 CA PHE A 268 -17.848 39.907 35.117 1.00 19.08 ATOM C -17.861 41.432 35.225 1.00 18.83 662 CB PHE A 268 ATOM C 665 CG PHE A 268 -17.385 41.950 36.546 1.00 17.99 ATOM C -16.099 41.692 36.977 1.00 16.96 666 CD1 PHE A 268 ATOM C -15.656 42.174 38.208 1.00 17.27 668 CE1 PHE A 268 ATOM -16.507 42.916 39.016 1.00 16.82 C 670 CZ PHE A 268 ATOM C -17.794 43.173 38.594 1.00 16.87 ATOM 672 CE2 PHE A 268 674 CD2 PHE A 268 -18.226 42.700 37.361 1.00 17.26 C ATOM -18.686 39.310 36.236 1.00 18.75 C 676 C PHE A 268 ATOM ATOM 677 O PHE A 268 -18.159 38.688 37.151 1.00 18.48 O -19.995 39.514 36.140 1.00 18.26 N 678 N ALA A 269 ATOM -20.941 39.054 37.143 1.00 17.83 C ATOM 680 CA ALA A 269 -22.374 39.366 36.714 1.00 17.76 C 682 CB ALA A 269 ATOM -20.761 37.573 37.317 1.00 17.28 C 686 C ALA A 269 ATOM -20.662 37.099 38.446 1.00 17.23 0 ATOM 687 O ALA A 269 -20.725 36.876 36.178 1.00 16.61 N 688 N HIS A 270 ATOM -20.439 35.456 36.091 1.00 16.26 690 CA HIS A 270 C ATOM C -20.251 35.037 34.611 1.00 16.45 ATOM 692 CB HIS A 270

	207 GG YYG A 070 00 070 00 561 04 411 1 00 17 07	0
ATOM	695 CG HIS A 270 -20.072 33.561 34.411 1.00 17.07	C
ATOM	696 ND1 HIS A 270 -21.112 32.667 34.498 1.00 17.46	N
ATOM	698 CE1 HIS A 270 -20.659 31.441 34.305 1.00 18.13	C
ATOM	700 NE2 HIS A 270 -19.363 31.508 34.081 1.00 17.84	N
ATOM	702 CD2 HIS A 270 -18.968 32.820 34.155 1.00 18.32	С
ATOM	704 C HIS A 270 -19.196 35.150 36.913 1.00 16.12	C
ATOM	705 O HIS A 270 -19.222 34.259 37.760 1.00 16.15	0
<b>ATOM</b>	706 N PHE A 271 -18.115 35.907 36.692 1.00 15.98	N
<b>ATOM</b>	708 CA PHE A 271 -16.840 35.675 37.409 1.00 15.49	C
<b>ATOM</b>	710 CB PHE A 271 -15.728 36.586 36.903 1.00 15.33	C
ATOM	713 CG PHE A 271 -14.844 35.923 35.908 1.00 17.14	С
ATOM	714 CD1 PHE A 271 -15.387 35.182 34.871 1.00 18.69	С
ATOM	716 CE1 PHE A 271 -14.575 34.551 33.944 1.00 19.99	С
ATOM	718 CZ PHE A 271 -13.211 34.646 34.048 1.00 19.96	C
ATOM	720 CE2 PHE A 271 -12.655 35.384 35.069 1.00 19.86	C
ATOM	722 CD2 PHE A 271 -13.473 36.015 36.005 1.00 19.16	С
ATOM	724 C PHE A 271 -17.003 35.845 38.882 1.00 14.62	C
ATOM	725 O PHE A 271 -16.527 35.052 39.664 1.00 14.92	O
ATOM	726 N THR A 272 -17.732 36.882 39.229 1.00 14.01	N
ATOM	728 CA THR A 272 -18.029 37.264 40.588 1.00 13.51	С
ATOM	730 CB THR A 272 -18.697 38.673 40.511 1.00 13.40	С
ATOM	732 OG1 THR A 272 -17.981 39.587 41.346 1.00 13.64	0
ATOM	734 CG2 THR A 272 -20.135 38.717 40.981 1.00 12.87	С
ATOM	738 C THR A 272 -18.860 36.204 41.357 1.00 13.68	C
ATOM	739 O THR A 272 -18.763 36.074 42.579 1.00 12.27	0
ATOM	740 N GLU A 273 -19.649 35.430 40.620 1.00 14.33	N
	742 CA GLU A 273 -20.560 34.461 41.208 1.00 14.96	C
ATOM ATOM	744 CB GLU A 273 -21.823 34.347 40.363 1.00 15.07	Č
	747 CG GLU A 273 -22.783 35.506 40.595 1.00 15.71	Ċ
ATOM	750 CD GLU A 273 -23.552 35.917 39.347 1.00 18.47	Č
ATOM	751 OE1 GLU A 273 -23.420 35.236 38.305 1.00 19.72	Ö
ATOM	752 OE2 GLU A 273 -24.295 36.930 39.403 1.00 19.58	ŏ
ATOM	753 C GLU A 273 -19.881 33.115 41.402 1.00 15.28	c
ATOM	754 O GLU A 273 -19.881 33.113 41.402 1.00 15.20	Ö
ATOM		N
ATOM	700 11 220 11 21 21	C
ATOM		č
ATOM		C
ATOM	772 C LEU A 274 -17.091 32.061 41.908 1.00 15.27	o
ATOM	773 O LEU A 274 -16.855 31.224 42.747 1.00 15.73	N
ATOM	774 N ALA A 275 -16.573 33.284 41.979 1.00 14.95	
ATOM	776 CA ALA A 275 -15.706 33.668 43.100 1.00 14.65	C C
ATOM	778 CB ALA A 275 -15.273 35.105 42.943 1.00 14.60	
ATOM	782 C ALA A 275 -16.386 33.425 44.467 1.00 14.65	С
ATOM	783 O ALA A 275 -15.787 32.880 45.379 1.00 14.90	O
ATOM	784 N ILE A 276 -17.665 33.781 44.557 1.00 14.61	N

786 CA ILE A 276 -18.473 33.595 45.739 1.00 14.40	C
788 CB ILE A 276 -19.853 34.224 45.515 1.00 14.07	C
790 CG1 ILE A 276 -19.752 35.730 45.719 1.00 12.92	C
793 CD1 ILE A 276 -20.838 36.515 45.086 1.00 10.99	С
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	С
	O
	N
	C
	С
809 CG1 ILE A 277 -21.009 29.557 43.805 1.00 15.48	С
812 CD1 ILE A 277 -21 503 29 085 42 436 1.00 14 84	C
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826 CB SER A 278 -14 080 29 758 45 095 1 00 18 13	č
829 OG SER A 278 -14 033 29 048 43 876 1 00 19 28	Ö
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	788 CB ILE A 276 790 CG1 ILE A 276 793 CD1 ILE A 276 797 CG2 ILE A 276 797 CG2 ILE A 276 798 CD ILE A 276 799 CG2 ILE A 276 790 CG2 ILE A 276 790 CG2 ILE A 276 790 CG2 ILE A 276 791 CB ILE A 276 792 CD ILE A 276 793 CD1 ILE A 276 794 CB ILE A 276 795 CB ILE A 276 796 CB ILE A 277 797 CB ILE A 277 798 CG2 ILE A 277 799 CG1 ILE A 277 799 CG1 ILE A 277 790 CG1 ILE A 277 790 CG1 ILE A 277 791 CB ILE A 277 791 CB ILE A 277 792 CD ILE A 277 793 CD1 ILE A 277 794 CB ILE A 277 795 CB ILE A 277 796 CG2 ILE A 277 797 CB ILE A 277 798 CG2 ILE A 277 799 CG3 ILE A 277 790 CG3 ILE A 277 790 CG3 ILE A 277 791 CB ILE A 277 791 CB ILE A 277 792 CD ILE A 277 793 CD ILE A 277 794 CB ILE A 277 795 CB ILE A 277 796 CB ILE A 277 797 CB ILE A 277 798 CG3 ILE A 277 799 CG3 ILE A 277 799 CG4 ILE A 277 799 CG4 ILE A 277 790 CG2 ILE A 277 790 CG2 ILE A 277 790 CG2 ILE A 277 790 CG3 ILE A 277 790 CG3 ILE A 277 790 CG4 ILE A 277 790 CG2 ILE A 277 790 CG2 ILE A 277 790 CG2 ILE A 277 790 CG3 ILE A 27

ATOM	885 CB ILE A 282 -12.241 2	8.824 50.743 1.00 21.29	С
ATOM	887 CG1 ILE A 282 -11.674	28.506 49.374 1.00 22.06	C
ATOM	890 CD1 ILE A 282 -11.200		C
ATOM	894 CG2 ILE A 282 -11.072		С
ATOM		7.807 52.735 1.00 21.18	С
ATOM		7.260 53.634 1.00 20.38	O
ATOM	900 N VAL A 283 -14.455 2		N
ATOM	902 CA VAL A 283 -14.887		C
ATOM	904 CB VAL A 283 -16.002		Ċ
ATOM	906 CG1 VAL A 283 -16.530	29 899 55 863 1.00 22.01	C
ATOM	910 CG2 VAL A 283 -15.454	31 201 54 076 1 00 22 49	Č
-	914 C VAL A 283 -15.313 2	7 404 54 959 1 00 22 99	c
ATOM	915 O VAL A 283 -14.946 2	27.104 56.000 1.00 22.22	Ö
ATOM	916 N ASP A 284 -16.055 2	27.104 30.030 1.00 23.43 06 502 54 196 1 00 23 57	N
ATOM			C
ATOM	918 CA ASP A 284 -16.445	23.232 34.027 1.00 23.91	c
ATOM	920 CB ASP A 284 -17.270	24,496 53.555 1.00 24.56	C
ATOM	923 CG ASP A 284 -18.701	25.006 53.464 1.00 27.94	
ATOM	924 OD1 ASP A 284 -19.410		0
ATOM	925 OD2 ASP A 284 -19.189		0
ATOM		4.363 54.962 1.00 22.67	C
ATOM	927 O ASP A 284 -15.314 2		0
ATOM		24.489 54.208 1.00 21.73	N
ATOM	930 CA PHE A 285 -12.993		C
<b>ATOM</b>		23.695 53.194 1.00 20.37	С
<b>ATOM</b>		23.025 53.351 1.00 18.40	С
<b>ATOM</b>	936 CD1 PHE A 285 -10.762		C
<b>ATOM</b>	938 CE1 PHE A 285 -9.558		С
<b>ATOM</b>	940 CZ PHE A 285 -8.460 2	21.745 53.668 1.00 17.14	C
ATOM	942 CE2 PHE A 285 -8.544	23.107 53.782 1.00 17.51	С
ATOM	944 CD2 PHE A 285 -9.726	23.737 53.621 1.00 16.48	С
ATOM	946 C PHE A 285 -12.224 2	24.199 55.691 1.00 21.65	C
ATOM	947 O PHE A 285 -11.761 2	23.414 56.515 1.00 21.74	Ο
ATOM	948 N ALA A 286 -12.111		N
ATOM	950 CA ALA A 286 -11.398		С
ATOM			С
ATOM		25.630 58.255 1.00 22.99	С
ATOM		25.348 59.214 1.00 22.63	O
ATOM		25.499 58.258 1.00 23.62	N
ATOM		25.133 59.438 1.00 24.58	С
ATOM		25.200 59.161 1.00 25.41	Č
ATOM		26.612 59.304 1.00 27.79	Č
ATOM		26.774 58.442 1.00 30.45	Č
ATOM		26.964 59.266 1.00 30.44	č
ATOM		26.614 58.412 1.00 31.17	N
ATOM		23.750 59.909 1.00 24.06	C
		23.472 61.083 1.00 24.69	0
ATOM		22.887 58.982 1.00 23.67	N
ATOM			C
ATOM	982 CA GLN A 288 -12.971	21.495 59.266 1.00 23.33	C

ATOM	984 CB GLN A 288	-13.479 20.618 58.132 1.00 23.55	C
ATOM	987 CG GLN A 288	-14.961 20.346 58.204 1.00 26.24	C
ATOM	990 CD GLN A 288	-15.538 19.977 56.851 1.00 29.73	C
ATOM	991 OE1 GLN A 288	-15.784 18.803 56.568 1.00 33.37	0
ATOM		-15.745 20.979 56.006 1.00 30.98	N
ATOM	995 C GLN A 288	-11.481 21.247 59.461 1.00 22.42	С
ATOM	996 O GLN A 288	-11.075 20.112 59.681 1.00 22.22	0
ATOM	997 N VAL A 289	-10.666 22.291 59.372 1.00 21.47	N
ATOM	999 CA VAL A 289		С
ATOM	1001 CB VAL A 289		C
ATOM		-6.947 23.229 59.338 1.00 20.04	C
ATOM		-8.523 23.112 57.423 1.00 20.55	Č
ATOM		-9.005 22.162 61.137 1.00 21.11	C
ATOM	1012 O VALA 289		ŏ
ATOM	1012 O VALA 200	-8.511 21.078 61.711 1.00 21.55	N
ATOM		-8.262 21.048 63.155 1.00 21.97	C
ATOM	1014 CA PRO A 290	-7.576 19.691 63.374 1.00 21.92	Č
	1010 CB PRO A 290	-8.110 18.849 62.272 1.00 22.54	C
ATOM	1019 CG PRO A 290 1022 CD PRO A 290	-8.177 19.795 61.074 1.00 22.12	Č
ATOM	1022 CD PRO A 290 1025 C PRO A 290	-7.382 22.201 63.648 1.00 22.60	C
ATOM		-6.302 22.483 63.085 1.00 21.36	0
ATOM		-7.862 22.840 64.728 1.00 23.56	N
ATOM	1027 N GLY A 291		C
ATOM	1029 CA GLY A 291	-7.273 24.061 65.253 1.00 24.05	
ATOM	1032 C GLY A 291	-8.084 25.312 64.881 1.00 24.85	C
ATOM	1033 O GLY A 291	-8.128 26.286 65.642 1.00 25.14	0
ATOM	1034 N PHE A 292	-8.739 25.315 63.724 1.00 25.09	N
ATOM	1036 CA PHE A 292	-9.328 26.556 63.259 1.00 25.49	C
ATOM	1038 CB PHE A 292		C
ATOM	1041 CG PHE A 292		C
ATOM	1042 CD1 PHE A 292		C
ATOM	1044 CE1 PHE A 292		C
ATOM		-11.275 30.213 60.262 1.00 24.13	C
ATOM	1048 CE2 PHE A 292		C
ATOM		-11.651 28.131 61.382 1.00 24.38	С
ATOM	1052 C PHE A 292	-10.490 26.935 64.155 1.00 26.26	C
ATOM	1053 O PHE A 292	-10.486 27.995 64.754 1.00 25.69	O
ATOM	1054 N LEU A 293	-11.483 26.058 64.251 1.00 27.65	N
ATOM	1056 CA LEU A 293	-12.710 26.388 64.964 1.00 28.61	С
ATOM	1058 CB LEU A 293	-13.840 25.376 64.683 1.00 29.02	C
ATOM	1061 CG LEU A 293	-14.810 25.599 63.488 1.00 31.33	С
ATOM	1063 CD1 LEU A 293	-16.103 24.757 63.649 1.00 32.23	C
ATOM	1067 CD2 LEU A 293	-15.200 27.064 63.259 1.00 32.62	C
ATOM	1071 C LEU A 293	-12.422 26.513 66.458 1.00 28.53	C
ATOM	1072 O LEU A 293	-13.307 26.810 67.227 1.00 29.36	О
ATOM	1073 N GLN A 294	-11.175 26.343 66.857 1.00 28.36	N
ATOM	1075 CA GLN A 294	-10.793 26.517 68.233 1.00 28.53	C
ATOM	1077 CB GLN A 294	-10.086 25.229 68.671 1.00 29.69	C
ATOM	1080 CG GLN A 294	-11.080 23.994 68.980 1.00 30.93	С

ATOM	1083	CD GLN A 294	-12.019 23.596 67.821 1.00 31.94	С
ATOM	1084	OE1 GLN A 294	-11.601 23.523 66.654 1.00 33.37	О
ATOM		<b>NE2 GLN A 294</b>	-13.285 23.343 68.153 1.00 32.22	N
ATOM	1088	C GLN A 294	-9.927 27.765 68.483 1.00 28.31	С
ATOM	1089		-9.371 27.939 69.568 1.00 28.59	Ο
ATOM		N LEU A 295	-9.821 28.644 67.479 1.00 27.61	N
ATOM		CA LEU A 295	-9.274 30.007 67.642 1.00 25.98	C
ATOM		CB LEU A 295	-8.658 30.501 66.340 1.00 25.70	C
ATOM		CG LEU A 295	-7.250 30.025 66.006 1.00 25.90	С
ATOM		CD1 LEU A 295	-6.950 30.228 64.483 1.00 25.84	С
ATOM	1103	CD2 LEU A 295	-6.190 30.700 66.899 1.00 25.19	С
ATOM		C LEU A 295	-10.417 30.935 68.024 1.00 25.16	C
ATOM	1108		-11.575 30.558 67.862 1.00 24.68	О
ATOM	1109		-10.097 32.143 68.505 1.00 24.51	N
ATOM	1111	CA GLY A 296	-11.111 33.132 68.854 1.00 24.03	С
ATOM		C GLY A 296	-11.784 33.597 67.590 1.00 24.16	C
ATOM		O GLY A 296	-11.126 33.708 66.564 1.00 24.80	Ο
			-13.080 33.860 67.620 1.00 24.32	N
ATOM	1118	CA ARG A 297	-13.810 34.213 66.382 1.00 25.00	С
ATOM	1120	CB ARG A 297	-15.255 34.611 66.698 1.00 25.43	C
ATOM			-16.188 34.290 65.559 1.00 27.42	С
ATOM	1126	CD ARG A 297	-17.373 35.210 65.432 1.00 31.34	C
ATOM	1129	<b>NE ARG A 297</b>	-18.364 34.571 64.557 1.00 35.73	N
ATOM	1131	<b>CZ ARG A 297</b>	-19.306 35.200 63.859 1.00 37.74	C
ATOM	1132	NH1 ARG A 297	-19.424 36.516 63.913 1.00 38.58	N
<b>ATOM</b>	1135	NH2 ARG A 297	-20.138 34.496 63.102 1.00 38.50	N
ATOM	1138	C ARG A 297	-13.182 35.312 65.466 1.00 24.72	С
ATOM	1139	O ARG A 297	-13.282 35.238 64.232 1.00 23.75	О
ATOM	1140	N GLU A 298	-12.582 36.328 66.090 1.00 24.68	N
<b>ATOM</b>	1142	CA GLU A 298	-11.933 37.438 65.387 1.00 24.95	C
<b>ATOM</b>	1144	CB GLU A 298	-11.537 38.549 66.372 1.00 25.42	С
<b>ATOM</b>	1147	CG GLU A 298	-12.416 39.784 66.315 1.00 28.30	C
<b>ATOM</b>		CD GLU A 298		C
ATOM	1151	OE1 GLU A 298	-14.656 39.068 65.869 1.00 35.14	О
ATOM	1152	OE2 GLU A 298	-14.156 39.737 67.944 1.00 34.25	О
ATOM	1153	C GLU A 298	-10.695 36.976 64.615 1.00 24.10	C
ATOM	1154	O GLU A 298	-10.458 37.418 63.488 1.00 23.76	О
ATOM	1155	N ASP A 299	-9.902 36.108 65.227 1.00 23.29	N
ATOM	1157	CA ASP A 299	-8.799 35.478 64.505 1.00 22.93	С
ATOM	1159	CB ASP A 299	-7.881 34.701 65.449 1.00 22.83	С
ATOM	1162	CG ASP A 299	-7.095 35.611 66.379 1.00 22.90	C
ATOM	1163	OD1 ASP A 299	-6.927 36.798 66.038 1.00 21.91	0
ATOM	1164	OD2 ASP A 299	-6.622 35.221 67.473 1.00 24.10	О
ATOM	1165	C ASP A 299	-9.274 34.553 63.392 1.00 22.80	С
ATOM	1166	O ASP A 299	-8.617 34.464 62.367 1.00 22.18	Ο
ATOM	1167	N GLN A 300	-10.404 33.864 63.583 1.00 22.76	N
ATOM	1169	CA GLN A 300	-10.942 33.027 62.510 1.00 22.87	C
ATOM	1171	CB GLN A 300	-12.216 32.311 62.924 1.00 22.91	С

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ATOM 1174 CG GLN A 300 -11.973 31.073 63.743 1.00 23.81  $\mathbf{C}$ -13.227 30.542 64.412 1.00 23.65 ATOM 1177 CD GLN A 300 C ATOM 1178 OE1 GLN A 300 -13.146 30.027 65.521 1.00 24.04 0 -14.378 30.679 63.757 1.00 23.05 ATOM 1179 NE2 GLN A 300 N -11.261 33.863 61.293 1.00 22.97 ATOM 1182 C GLN A 300 C -10.993 33.443 60.164 1.00 24.45 ATOM 1183 O GLN A 300 0 ATOM 1184 N ILE A 301 -11.854 35.030 61.534 1.00 22.34 N -12.253 35.953 60.491 1.00 21.80  $\mathbf{C}$ ATOM 1186 CA ILE A 301 -13.185 37.048 61.078 1.00 21.87 C ATOM 1188 CB ILE A 301 ATOM 1190 CG1 ILE A 301 -14.594 36.477 61.342 1.00 22.74 C -15.503 37.351 62.232 1.00 22.27 C ATOM 1193 CD1 ILE A 301 C ATOM 1197 CG2 ILE A 301 -13.313 38.185 60.127 1.00 21.94 ATOM 1201 C ILE A 301 -11.020 36.576 59.838 1.00 21.40 C ATOM 1202 O ILE A 301 -10.971 36.722 58.605 1.00 21.05 0 -10.036 36.922 60.674 1.00 20.83 N ATOM 1203 N ALA A 302 ATOM 1205 CA ALA A 302 -8.830 37.605 60.233 1.00 20.46 C C -7.987 37.974 61.406 1.00 19.86 ATOM 1207 CB ALA A 302 -8.039 36.724 59.281 1.00 20.94 C ATOM 1211 C ALA A 302 ATOM 1212 O ALA A 302 -7.610 37.189 58.216 1.00 20.77 0 N ATOM 1213 N LEU A 303 -7.872 35.453 59.658 1.00 21.40 C -7.090 34.488 58.881 1.00 21.77 ATOM 1215 CA LEU A 303  $\mathbf{C}$ -6.801 33.228 59.684 1.00 21.23 ATOM 1217 CB LEU A 303 C -6.008 33.467 60.968 1.00 21.16 ATOM 1220 CG LEU A 303 C -5.946 32.138 61.668 1.00 21.97 ATOM 1222 CD1 LEU A 303 ATOM 1226 CD2 LEU A 303 -4.600 34.067 60.755 1.00 19.94 C -7.786 34.109 57.585 1.00 22.85 C ATOM 1230 C LEU A 303 ATOM 1231 O LEU A 303 -7.134 33.988 56.537 1.00 22.72 0 N -9.100 33.918 57.639 1.00 23.86 ATOM 1232 N LEU A 304 -9.856 33.696 56.403 1.00 24.79 C ATOM 1234 CA LEU A 304 -11.294 33.276 56.694 1.00 25.13 C ATOM 1236 CB LEU A 304 -11.480 31.777 56.894 1.00 27.17 C ATOM 1239 CG LEU A 304 ATOM 1241 CD1 LEU A 304 -12.937 31.437 57.319 1.00 27.02 C -11.069 31.035 55.600 1.00 28.70  $\mathbf{C}$ ATOM 1245 CD2 LEU A 304 ATOM 1249 C LEU A 304 -9.838 34.926 55.483 1.00 24.88 C -9.728 34.784 54.278 1.00 25.15 ATOM 1250 O LEU A 304 0 N ATOM 1251 N LYS A 305 -9.938 36.128 56.033 1.00 24.70 ATOM 1253 CA LYS A 305 -9.977 37.306 55.173 1.00 24.80 C C ATOM 1255 CB LYS A 305 -10.122 38.628 55.957 1.00 25.19 C ATOM 1258 CG LYS A 305 -11.575 39.064 56.156 1.00 27.47 C ATOM 1261 CD LYS A 305 -11.731 40.506 56.674 1.00 29.14 C -11.169 41.544 55.708 1.00 29.79 ATOM 1264 CE LYS A 305 ATOM 1267 NZ LYS A 305 -12.152 42.664 55.499 1.00 29.76 N -8.738 37.360 54.307 1.00 24.04 ATOM 1271 C LYS A 305 C -8.842 37.631 53.127 1.00 24.22 0 ATOM 1272 O LYS A 305 ATOM 1273 N ALA A 306 -7.576 37.100 54.893 1.00 23.38 N ATOM 1275 CA ALA A 306 -6.310 37.249 54.191 1.00 22.95 C ATOM 1277 CB ALA A 306 -5.225 37.367 55.183 1.00 23.00 C ATOM 1281 C ALA A 306 -6.029 36.064 53.266 1.00 23.52 C

ATOM		458 36.226 52.197 1.00 23.67	О
<b>ATOM</b>		467 34.877 53.694 1.00 23.82	N
<b>ATOM</b>		.222 33.599 53.023 1.00 23.95	C
ATOM		.596 32.467 53.986 1.00 24.44	С
ATOM		.539 32.160 54.863 1.00 28.57	О
ATOM		068 33.348 51.788 1.00 23.00	C
ATOM		585 32.637, 50.874 1.00 22.83	О
<b>ATOM</b>		270 33.870 51.809 1.00 22.03	N
ATOM		0.257 33.485 50.837 1.00 21.51	C
ATOM		0.553 34.297 51.065 1.00 21.69	С
ATOM	1300 OG1 THR A 308 -1	11.122 33.910 52.312 1.00 21.74	C
		1.647 33.909 50.100 1.00 22.66	C
		725 33.603 49.407 1.00 20.49	C
ATOM		767 32.632 48.675 1.00 20.62	О
<b>ATOM</b>		06 34.759 49.015 1.00 19.39	N
ATOM		715 34.924 47.646 1.00 18.77	C
ATOM		337 36.393 47.351 1.00 18.63	C
ATOM		.044 36.608 45.855 1.00 19.02	C
ATOM		.254 36.358 44.924 1.00 19.57	C
		.139 36.793 48.139 1.00 18.43	С
ATOM		27 34.004 47.381 1.00 18.63	C
ATOM		54 33.525 46.249 1.00 18.68	O
ATOM		705 33.775 48.413 1.00 18.19	N
ATOM		4.515 32.938 48.286 1.00 17.74	C
<b>ATOM</b>		3.592 33.055 49.501 1.00 17.22	С
ATOM		3.035 34.449 49.613 1.00 17.01	C
		2.126 34.694 50.786 1.00 16.86	C
		1.578 33.754 51.386 1.00 17.65	0
		1.964 35.882 51.094 1.00 16.61	0
ATOM		929 31.517 48.080 1.00 18.04	С
ATOM		.327 30.824 47.303 1.00 19.07	О
ATOM		78 31.084 48.747 1.00 18.10	N
ATOM		409 29.721 48.622 1.00 18.31	C
		388 29.349 49.738 1.00 18.22	C
ATOM	1348 CG1 ILE A 311 -6	.685 29.378 51.088 1.00 19.46	C
ATOM		.626 29.479 52.271 1.00 20.90	C
<b>ATOM</b>		.895 27.966 49.527 1.00 19.07	C
ATOM		52 29.577 47.274 1.00 18.37	С
ATOM	1360 O ILE A 311 -7.0	04 28.511 46.690 1.00 19.22	О
ATOM		.657 30.651 46.782 1.00 18.59	N
ATOM	1363 CA MET A 312 -	8.302 30.648 45.483 1.00 19.12	С
ATOM		9.078 31.951 45.258 1.00 19.36	С
ATOM		0.465 31.911 45.882 1.00 21.56	C
ATOM		1.398 33.489 46.069 1.00 24.13	S
ATOM		2.498 33.369 44.743 1.00 24.71	С
ATOM		.269 30.479 44.384 1.00 19.31	C
ATOM		.549 29.928 43.330 1.00 19.64	О
ATOM	1378 N LEU A 313 -6.	073 30.983 44.635 1.00 19.67	N

ATOM	1380 CA LEU A 313	-4.998 30.969 43.668 1.00 19.66	С
ATOM	1382 CB LEU A 313	-3.984 32.036 44.049 1.00 19.66	C
<b>ATOM</b>	1385 CG LEU A 313	-4.382 33.451 43.609 1.00 19.99	С
<b>ATOM</b>	1387 CD1 LEU A 313	-3.726 34.533 44.426 1.00 20.68	C
ATOM	1391 CD2 LEU A 313	-3.965 33.656 42.193 1.00 20.17	С
ATOM	1395 C LEU A 313	-4.382 29.580 43.614 1.00 19.87	С
ATOM	1396 O LEU A 313	-4.102 29.071 42.557 1.00 19.56	Ο
ATOM	1397 N LEU A 314	-4.187 28.975 44.768 1.00 20.83	N
ATOM	1399 CA LEU A 314	-3.805 27.574 44.872 1.00 22.28	С
ATOM	1401 CB LEU A 314	-3.727 27.163 46.359 1.00 22.48	С
ATOM	1404 CG LEU A 314	-2.398 27.033 47.141 1.00 23.90	С
	1406 CD1 LEU A 314	-1.137 27.368 46.355 1.00 24.36	С
		-2.445 27.875 48.405 1.00 24.82	С
	1414 C LEU A 314	-4.835 26.670 44.161 1.00 23.33	С
	1415 O LEU A 314	-4.491 25.810 43.346 1.00 23.05	О
ATOM	1416 N GLU A 315	-6.101 26.885 44.498 1.00 24.65	N
ATOM		-7.195 26.089 43.976 1.00 25.56	С
ATOM	1420 CB GLU A 315	-8.528 26.462 44.650 1.00 25.69	С
ATOM	1423 CG GLU A 315	-8.815 25.728 45.979 1.00 28.10	C
ATOM	1426 CD GLU A 315		С
ATOM	1427 OE1 GLU A 315	-9.321 23.639 44.872 1.00 33.50	O
ATOM		-8.428 23.521 46.852 1.00 32.27	0
ATOM	1429 C GLU A 315	-7.296 26.247 42.469 1.00 25.69	C
ATOM	1430 O GLU A 315	-7.555 25.285 41.787 1.00 26.52	Ο
ATOM	1431 N THR A 316	-7.082 27.448 41.955 1.00 25.90	N
ATOM	1433 CA THR A 316	-7.090 27.696 40.526 1.00 26.05	С
ATOM		-6.922 29.203 40.277 1.00 26.00	C
		-8.093 29.889 40.710 1.00 24.43	О
		-6.825 29.557 38.776 1.00 26.36	С
ATOM	1443 C THR A 316	-5.949 26.911 39.881 1.00 27.15	С
ATOM	1444 O THR A 316	-6.106 26.291 38.827 1.00 27.00	Ο
ATOM	1445 N ALA A 317	-4.792 26.935 40.526 1.00 28.49	N
ATOM		-3.647 26.202 40.032 1.00 29.48	С
ATOM		-2.414 26.524 40.852 1.00 29.09	С
ATOM	1453 C ALA A 317	-3.946 24.693 40.025 1.00 30.57	С
	1454 O ALA A 317		Ο
	1455 N ARG A 318	-4.687 24.216 41.028 1.00 31.85	N
	1457 CA ARG A 318	-5.126 22.825 41.101 1.00 33.09	C
	1459 CB ARG A 318	-5.911 22.570 42.392 1.00 33.39	С
	1462 CG ARG A 318	-5.487 21.303 43.102 1.00 36.52	С
	1465 CD ARG A 318	-5.983 21.150 44.538 1.00 41.24	С
	1468 NE ARG A 318	-6.420 19.776 44.794 1.00 44.94	N
ATOM	1470 CZ ARG A 318	-7.700 19.383 44.906 1.00 49.98	С
ATOM	1471 NH1 ARG A 318	-8.712 20.264 44.812 1.00 51.18	N
	1474 NH2 ARG A 318	-7.985 18.089 45.115 1.00 51.48	N
	1477 C ARG A 318	-5.984 22.488 39.874 1.00 33.69	С
	1478 O ARG A 318	-5.744 21.492 39.180 1.00 33.38	Ο
ATOM	1479 N ARG A 319	-6.941 23.375 39.589 1.00 34.59	N

ATOM	1481	CA ARG A 319	-7.887 23.259 38.465 1.00 35.10	С
<b>ATOM</b>	1483	CB ARG A 319	-9.108 24.159 38.716 1.00 34.88	C
<b>ATOM</b>	1486	CG ARG A 319	-9.918 23.762 39.930 1.00 35.78	С
<b>ATOM</b>	1489	CD ARG A 319	-11.099 24.665 40.185 1.00 38.17	C
<b>ATOM</b>	1492	NE ARG A 319	-11.891 24.243 41.351 1.00 39.91	N
		CZ ARG A 319		С
			-11.947 26.339 42.397 1.00 42.33	N
ATOM	1498	NH2 ARG A 319	-12.985 24.543 43.353 1.00 43.47	N
ATOM	1501	C ARG A 319		С
ATOM	1502	O ARG A 319	-7.976 23.569 36.076 1.00 35.25	Ο
<b>ATOM</b>	1503	N TYR A 320	-6.003 23.934 37.066 1.00 36.30	N
ATOM	1505	CA TYR A 320	-5.333 24.270 35.818 1.00 36.91	C
<b>ATOM</b>	1507	CB TYR A 320	-4.014 25.004 36.080 1.00 36.73	С
			-3.309 25.509 34.837 1.00 36.21	С
ATOM	1511	CD1 TYR A 320	-3.835 26.560 34.077 1.00 36.01	C
ATOM	1513	<b>CE1 TYR A 320</b>	-3.161 27.041 32.939 1.00 35.49	С
ATOM	1515	CZ TYR A 320	-1.952 26.461 32.557 1.00 35.82	С
ATOM	1516	OH TYR A 320	-1.250 26.900 31.438 1.00 36.55	Ο
ATOM	1518	<b>CE2 TYR A 320</b>	-1.432 25.416 33.299 1.00 35.51	C
ATOM	1520	<b>CD2 TYR A 320</b>	-2.107 24.948 34.429 1.00 35.41	С
	1522	C TYR A 320	-5.081 22.984 35.058 1.00 37.52	С
ATOM	1523	O TYR A 320	-4.856 21.920 35.656 1.00 37.77	Ο
ATOM			-5.132 23.095 33.741 1.00 38.08	. N
			-4.933 21.965 32.868 1.00 38.74	С
		CB ASN A 321		С
		CG ASN A 321	-6.270 20.161 31.660 1.00 39.71	С
			-5.695 19.212 32.207 1.00 39.37	Ο
			-6.921 20.040 30.495 1.00 40.27	N
		C ASN A 321		C
			-4.361 23.240 30.934 1.00 38.92	O
		N HIS A 322		N
ATOM	1540			С
ATOM	1542	CB HIS A 322	-0.274 22.102 31.487 1.00 40.96	C
			0.864 22.772 30.767 1.00 42.17	С
		ND1 HIS A 322	1.029 24.142 30.741 1.00 42.91	N
		CE1 HIS A 322	2.112 24.440 30.042 1.00 43.21	С
		<b>NE2 HIS A 322</b>	2.653 23.314 29.608 1.00 43.01	N
		CD2 HIS A 322	1.889 22.256 30.042 1.00 42.88	С
		C HIS A 322	-1.851 22.243 29.549 1.00 40.86	С
		O HIS A 322	-1.574 23.078 28.683 1.00 41.03	O
		N GLU A 323	-2.317 21.027 29.264 1.00 41.10	N
		CA GLU A 323	-2.709 20.652 27.904 1.00 41.20	С
		CB GLU A 323	-3.456 19.306 27.896 1.00 41.38	С
		CG GLU A 323	-2.655 18.079 28.329 1.00 41.67	С
		CD GLU A 323	-3.403 16.773 28.066 1.00 41.89	C
		OE1 GLU A 323	-4.263 16.390 28.904 1.00 41.85	0
		OE2 GLU A 323	-3.140 16.137 27.018 1.00 40.22	O
		C GLU A 323	-3.606 21.733 27.270 1.00 41.09	C

		7.7-	
ATOM	1570	O GLU A 323 -3.355 22.148 26.142 1.00 40.95	0
<b>ATOM</b>		N THR A 324 -4.626 22.190 28.015 1.00 41.03	N
ATOM	1573	CA THR A 324 -5.670 23.114 27.504 1.00 40.78	С
<b>ATOM</b>	1575	CB THR A 324 -7.095 22.609 27.932 1.00 40.89	С
ATOM	1577	OG1 THR A 324 -7.189 22.469 29.362 1.00 39.74	О
ATOM	1579	CG2 THR A 324 -7.387 21.187 27.379 1.00 40.81	С
ATOM	1583	C THR A 324 -5.533 24.626 27.852 1.00 40.66	С
ATOM		O THR A 324 -6.207 25.455 27.232 1.00 40.67	0
ATOM		N GLU A 325 -4.659 24.975 28.802 1.00 40.26	N
ATOM		CA GLU A 325 -4.478 26.359 29.285 1.00 40.12	С
ATOM		CB GLU A 325 -3.905 27.276 28.182 1.00 40.18	С
ATOM	1592	CG GLU A 325 -2.419 27.589 28.320 1.00 40.42	С
ATOM	1595	CD GLU A 325 -1.562 26.845 27.301 1.00 41.51	С
ATOM	1596	OE1 GLU A 325 -1.843 25.658 27.002 1.00 41.27	O
ATOM		OE2 GLU A 325 -0.595 27.450 26.787 1.00 42.41	O
ATOM		C GLU A 325 -5.738 26.999 29.917 1.00 39.99	С
ATOM		O GLU A 325 -5.946 28.221 29.812 1.00 40.10	0
ATOM		N CYS A 326 -6.541 26.183 30.609 1.00 39.50	N
ATOM		CA CYS A 326 -7.790 26.640 31.228 1.00 38.95	C
ATOM		CB CYS A 326 -8.992 26.185 30.401 1.00 39.01	Ċ
ATOM	1607	SG CYS A 326 -9.111 26.981 28.799 1.00 38.58	S
ATOM		C CYS A 326 -7.992 26.138 32.643 1.00 38.53	č
ATOM		O CYS A 326 -7.344 25.183 33.093 1.00 38.33	Ö
ATOM		N ILE A 327 -8.945 26.771 33.316 1.00 37.77	N
		CA ILE A 327 -9.236 26.471 34.697 1.00 37.49	Ĉ
		CB ILE A 327 -9.142 27.781 35.509 1.00 37.81	č
ATOM	1616	CG1 ILE A 327 -7.742 28.428 35.312 1.00 37.66	Č
ATOM	1610	CD1 ILE A 327 -7.733 29.940 35.326 1.00 36.71	Č
ATOM	1623	CG2 ILE A 327 -9.465 27.528 37.007 1.00 37.15	Č
ATOM		C ILE A 327 -10.618 25.824 34.786 1.00 37.10	c
ATOM	1628		Ö
ATOM		N THR A 328 -10.662 24.538 35.125 1.00 36.78	N
ATOM		CA THR A 328 -11.886 23.740 35.080 1.00 36.62	Ĉ
		CB THR A 328 -11.592 22.371 34.445 1.00 36.47	Č
		OG1 THR A 328 -10.710 22.524 33.335 1.00 35.61	
		CG2 THR A 328 -12.848 21.766 33.860 1.00 36.27	
		C THR A 328 -12.499 23.480 36.456 1.00 37.12	C
ATOM	1642		Ö
		N PHE A 329 -13.539 24.250 36.799 1.00 37.04	N
		CA PHE A 329 -14.393 23.973 37.963 1.00 36.98	C
ATOM		CB PHE A 329 -15.369 25.106 38.138 1.00 37.16	č
ATOM ATOM		CG PHE A 329 -13.309 23.100 38.138 1.00 37.10 CG PHE A 329 -14.738 26.338 38.646 1.00 38.09	C
		CD1 PHE A 329 -14.736 20.336 38.040 1.00 38.50	
ATOM		CE1 PHE A 329 -13.726 28.470 38.256 1.00 39.61	C
		CZ PHE A 329 -13.545 28.646 39.629 1.00 39.60	c
•		CE2 PHE A 329 -13.343 28.646 39.629 1.00 39.60 CE2 PHE A 329 -13.963 27.667 40.501 1.00 39.64	C
-		CD2 PHE A 329 -13.963 27.067 40.301 1.00 39.04 CD2 PHE A 329 -14.556 26.517 40.010 1.00 39.10	
ATOM			c
ATOM	1001	C PHE A 329 -15.189 22.653 37.917 1.00 36.78	C

ATOM 1662 O PHE A 329	-15.187 21.881 38.884 1.00 37.36	О
ATOM 1663 N LEU A 330	-15.903 22.416 36.824 1.00 36.01	N
ATOM 1665 CA LEU A 33	0 -16.477 21.095 36.574 1.00 35.45	С
ATOM 1667 CB LEU A 336	0 -17.773 20.911 37.375 1.00 35.35	C
ATOM 1670 CG LEU A 33	0 -18.838 21.996 37.204 1.00 35.24	С
ATOM 1672 CD1 LEU A 33	-20.224 21.375 37.099 1.00 34.65	C
ATOM 1676 CD2 LEU A 33	30 -18.771 23.012 38.342 1.00 35.02	C
ATOM 1680 C LEU A 330	-16.689 20.911 35.067 1.00 35.15	С
ATOM 1681 O LEU A 330		О
ATOM 1682 N LYS A 331		N
ATOM 1684 CA LYS A 33		С
ATOM 1686 CB LYS A 33:		C
ATOM 1689 CG LYS A 33		Č
ATOM 1692 CD LYS A 33		Č
ATOM 1695 CE LYS A 331		Č
ATOM 1698 NZ LYS A 33		N
ATOM 1702 C LYS A 331		C
ATOM 1702 C E18 A 331 ATOM 1703 O LYS A 331		Ö
ATOM 1703 O E13 A 331 ATOM 1704 N ASP A 332		N
ATOM 1704 N ASI A 332 ATOM 1706 CA ASP A 333		C
ATOM 1708 CB ASP A 333		c
		C
ATOM 1712 OD1 ASP A 33		0
ATOM 1713 OD2 ASP A 33		0
ATOM 1714 C ASP A 332		C
ATOM 1715 O ASP A 332		0
ATOM 1716 N PHE A 333		N
ATOM 1718 CA PHE A 33		C
ATOM 1720 CB PHE A 333		C
ATOM 1723 CG PHE A 33		C
ATOM 1724 CD1 PHE A 33		C
ATOM 1726 CE1 PHE A 33		С
ATOM 1728 CZ PHE A 333		C
ATOM 1730 CE2 PHE A 33		С
ATOM 1732 CD2 PHE A 33	3 -19.792 27.000 34.534 1.00 30.37	C
ATOM 1734 C PHE A 333		C
ATOM 1735 O PHE A 333		О
ATOM 1736 N THR A 334		N
ATOM 1738 CA THR A 33	4 -13.679 26.182 31.887 1.00 30.50	С
ATOM 1740 CB THR A 33	4 -13.126 25.236 30.798 1.00 30.73	С
ATOM 1742 OG1 THR A 33	34 -14.116 24.273 30.413 1.00 30.85	Ο
ATOM 1744 CG2 THR A 33	34 -11.959 24.400 31.335 1.00 31.05	C
ATOM 1748 C THR A 334		С
ATOM 1749 O THR A 334		O
ATOM 1750 N TYR A 335		N
ATOM 1752 CA TYR A 33		С
ATOM 1754 CB TYR A 33		С
ATOM 1757 CG TYR A 33		С

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ATOM	1758 CD1 TYR A 335	-14.111 29.211 33.988 1.00 29.00	С
ATOM		-15.437 29.008 34.319 1.00 29.25	С
ATOM	1762 CZ TYR A 335		С
ATOM		-17.728 29.640 34.157 1.00 29.83	O
ATOM		-16.047 30.890 32.964 1.00 29.62	С
ATOM		-14.711 31.082 32.634 1.00 29.34	C
ATOM	1769 C TYR A 335	-10.499 29.746 31.054 1.00 30.71	С
ATOM	1770 O TYR A 335	-9.557 29.311 31.731 1.00 30.82	O
ATOM	1771 N SER A 336	-10.355 30.397 29.900 1.00 30.62	N
ATOM	1773 CA SER A 336	-9.067 30.653 29.275 1.00 30.64	C
ATOM		-9.190 30.444 27.760 1.00 30.56	Č
		-9.901 31.505 27.136 1.00 30.44	ŏ
	1780 C SER A 336	-8.596 32.081 29.570 1.00 30.66	Č
	1781 O SER A 336	-9.396 32.923 29.964 1.00 30.70	Ö
		-7.309 32.351 29.345 1.00 30.48	N
ATOM	1784 CA LYS A 337		C
ATOM		-5.314 33.747 28.927 1.00 31.14	Č
ATOM		-4.155 33.988 29.928 1.00 32.14	Ċ
ATOM		-2.765 33.637 29.325 1.00 32.14	C
ATOM			C
ATOM	1795 CE LYS A 337	-2.704 32.176 28.793 1.00 33.77 -1.345 31.557 28.831 1.00 33.44	N
ATOM			C
ATOM	1802 C LYS A 337	-7.569 34.772 28.894 1.00 30.26	
ATOM	1803 O LYS A 337	-7.521 35.928 29.313 1.00 30.04	0
ATOM	1804 N ASP A 338	-8.305 34.402 27.845 1.00 30.27	N
ATOM	1806 CA ASP A 338	-9.172 35.336 27.121 1.00 29.97	C
ATOM		-9.520 34.794 25.734 1.00 30.06	C
ATOM		-8.406 34.976 24.760 1.00 29.95	C
ATOM	1812 OD1 ASP A 338	-7.236 34.956 25.216 1.00 29.17	0
		-8.607 35.155 23.535 1.00 30.85	0
ATOM		-10.451 35.607 27.867 1.00 29.57	C
ATOM	1815 O ASP A 338	-10.830 36.759 28.065 1.00 29.03	0
ATOM	1816 N ASP A 339	-11.119 34.529 28.256 1.00 29.61	N
ATOM		-12.340 34.613 29.051 1.00 29.76	C
ATOM		-12.776 33.208 29.519 1.00 29.82	С
<b>ATOM</b>	1823 CG ASP A 339	-13.224 32.292 28.352 1.00 30.31	C
ATOM	1824 OD1 ASP A 339		О
<b>ATOM</b>	1825 OD2 ASP A 339		O
<b>ATOM</b>	1826 C ASP A 339	-12.173 35.590 30.238 1.00 29.61	С
<b>ATOM</b>	1827 O ASP A 339	-13.081 36.367 30.528 1.00 29.84	О
<b>ATOM</b>	1828 N PHE A 340	-11.004 35.578 30.885 1.00 29.50	N
<b>ATOM</b>	1830 CA PHE A 340	-10.685 36.523 31.970 1.00 29.32	С
<b>ATOM</b>	1832 CB PHE A 340	-9.293 36.251 32.549 1.00 29.08	С
<b>ATOM</b>	1835 CG PHE A 340	-9.238 35.138 33.575 1.00 27.85	С
ATOM		-9.486 33.827 33.214 1.00 26.34	С
_	1838 CE1 PHE A 340	-9.412 32.806 34.123 1.00 26.55	C
	1840 CZ PHE A 340	-9.065 33.070 35.429 1.00 28.40	C
	1842 CE2 PHE A 340	-8.784 34.382 35.816 1.00 28.88	C
_	1844 CD2 PHE A 340		C

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ATOM 1846 C PHE A 340
                          -10.712 37.968 31.478 1.00 29.75
                                                             \mathbf{C}
                           -11.339 38.829 32.078 1.00 29.51
                                                             0
ATOM 1847 O PHE A 340
ATOM 1848 N HIS A 341
                          -10.004 38.225 30.385 1.00 30.66
                                                             N
ATOM 1850 CA HIS A 341
                           -9.967 39.556 29.772 1.00 31.34
                                                             C
                           -9.107 39.538 28.498 1.00 31.57
                                                             C
ATOM 1852 CB HIS A 341
ATOM 1855 CG HIS A 341
                           -8.584 40.887 28.107 1.00 33.26
                                                             C
ATOM 1856 ND1 HIS A 341
                           -7.731 41.618 28.914 1.00 34.11
                                                              N
                            -7.451 42.766 28.319 1.00 35.02
                                                             C
ATOM 1858 CE1 HIS A 341
                            -8.087 42.805 27.156 1.00 34.36
ATOM 1860 NE2 HIS A 341
                                                             N
ATOM 1862 CD2 HIS A 341
                          -8.801 41.642 26.998 1.00 33.85
                                                              \mathbf{C}
ATOM 1864 C HIS A 341 -11.362 40.103 29.461 1.00 31.38
                          -11.612 41.293 29.628 1.00 31.11
ATOM 1865 O HIS A 341
                                                             O
ATOM 1866 N ARG A 342 -12.261 39.220 29.031 1.00 31.76
                                                              N
                           -13.625 39.597 28.653 1.00 32.13
ATOM 1868 CA ARG A 342
                                                               C
ATOM 1870 CB ARG A 342
                           -14.335 38.433 27.951 1.00 32.29
                                                               C
ATOM 1873 CG ARG A 342
                           -13.904 38.255 26.504 1.00 33.17
                                                               C
                           -13.552 36.819 26.123 1.00 34.29
                                                               C
ATOM 1876 CD ARG A 342
ATOM 1879 NE ARG A 342
                           -13.140 36.722 24.721 1.00 35.20
                                                               N
                           -12.705 35.612 24.123 1.00 35.30
                                                               \mathbf{C}
ATOM 1881 CZ ARG A 342
                           -12.602 34.464 24.788 1.00 34.47
ATOM 1882 NH1 ARG A 342
                                                               N
                           -12.372 35.656 22.838 1.00 36.13
ATOM 1885 NH2 ARG A 342
                                                               N
ATOM 1888 C ARG A 342
                           -14.452 40.034 29.845 1.00 31.97
                                                              C
                           -15.360 40.857 29.706 1.00 32.19
ATOM 1889 O ARG A 342
                                                              0
                           -14.130 39.477 31.008 1.00 31.72
                                                              N
ATOM 1890 N ALA A 343
                           -14.811 39.807 32.257 1.00 31.67
ATOM 1892 CA ALA A 343
                                                               \mathbf{C}
                                                              C
ATOM 1894 CB ALA A 343
                           -14.631 38.659 33.278 1.00 31.71
                           -14.353 41.135 32.870 1.00 31.51
                                                              C
ATOM 1898 C ALA A 343
ATOM 1899 O ALA A 343
                           -14.768 41.476 33.980 1.00 31.63
                                                              0
ATOM 1900 N GLY A 344
                           -13.493 41.868 32.166 1.00 31.27
                                                              N
                           -13.075 43.197 32.587 1.00 31.26
                                                              C
ATOM 1902 CA GLY A 344
ATOM 1905 C GLY A 344
                           -11.712 43.224 33.244 1.00 31.18
                                                              C
ATOM 1906 O GLY A 344
                           -11.175 44.296 33.535 1.00 31.19
                                                              0
ATOM 1907 N LEU A 345
                           -11.147 42.041 33.459 1.00 31.06
                                                             N
                                                              C
                            -9.919 41.898 34.215 1.00 30.88
ATOM 1909 CA LEU A 345
                            -9.743 40.444 34.681 1.00 30.90
                                                              C
ATOM 1911 CB LEU A 345
ATOM 1914 CG LEU A 345
                            -10.874 39.685 35.411 1.00 29.95
                                                              C
                            -10.279 38.606 36.275 1.00 30.17
                                                               C
ATOM 1916 CD1 LEU A 345
                                                               C
ATOM 1920 CD2 LEU A 345
                            -11.741 40.559 36.257 1.00 29.30
                           -8.684 42.371 33.426 1.00 31.15
ATOM 1924 C LEU A 345
ATOM 1925 O LEU A 345
                            -8.472 42.013 32.263 1.00 31.10
                                                             O
ATOM 1926 N GLN A 346
                            -7.915 43.232 34.084 1.00 31.43
                                                             N
                           -6.570 43.634 33.675 1.00 31.50
ATOM 1928 CA GLN A 346
                                                              C
                                                              C
                           -5.902 44.374 34.841 1.00 31.89
ATOM 1930 CB GLN A 346
                           -6.224 45.842 34.993 1.00 31.90
                                                              C
ATOM 1933 CG GLN A 346
                           -5.473 46.429 36.181 1.00 31.13
                                                              C
ATOM 1936 CD GLN A 346
ATOM 1937 OE1 GLN A 346 -5.278 45.749 37.207 1.00 27.79
                                                              0
ATOM 1938 NE2 GLN A 346 -5.031 47.682 36.040 1.00 31.01
                                                              N
ATOM 1941 C GLN A 346 -5.581 42.505 33.303 1.00 31.21
                                                             C
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ATOM	1942 O GLN A 346		Ο
ATOM	1943 N VAL A 347	-4.626 42.890 32.450 1.00 30.55	N
ATOM	1945 CA VAL A 347	-3.417 42.125 32.115 1.00 29.63	C
ATOM	1947 CB VAL A 347	-2.625 42.877 30.995 1.00 29.42	C
<b>ATOM</b>	1949 CG1 VAL A 347	-1.342 42.155 30.655 1.00 28.92	С
ATOM	1953 CG2 VAL A 347	-3.512 43.083 29.740 1.00 29.39	C
ATOM	1957 C VAL A 347	-2.513 41.962 33.350 1.00 28.89	С
ATOM	1958 O VAL A 347	-1.935 40.899 33.591 1.00 28.20	О
ATOM	1959 N GLU A 348	-2.406 43.050 34.109 1.00 28.28	N
ATOM	1961 CA GLU A 348	-1.617 43.123 35.329 1.00 28.04	С
ATOM	1963 CB GLU A 348	-1.819 44.497 35.988 1.00 28.17	С
ATOM		-1.084 45.660 35.318 1.00 28.94	C
	1969 CD GLU A 348	-1.955 46.586 34.455 1.00 30.20	C
ATOM	1970 OE1 GLU A 348	-3.106 46.221 34.132 1.00 31.40	О
ATOM	1971 OE2 GLU A 348	-1.478 47.692 34.076 1.00 29.15	О
ATOM	1972 C GLU A 348	-1.923 41.997 36.337 1.00 27.64	C
ATOM	1973 O GLU A 348	-1.036 41.630 37.096 1.00 27.84	О
ATOM	1974 N PHE A 349	-3.159 41.461 36.323 1.00 26.79	N
ATOM	1976 CA PHE A 349	-3.615 40.339 37.183 1.00 25.66	C
ATOM	1978 CB PHE A 349	-5.045 40.667 37.659 1.00 25.81	С
ATOM	1981 CG PHE A 349	-5.614 39.738 38.709 1.00 24.39	С
	1982 CD1 PHE A 349	-4.848 39.253 39.751 1.00 25.08	C
	1984 CE1 PHE A 349	-5.424 38.413 40.750 1.00 26.06	С
	1986 CZ PHE A 349	-6.773 38.075 40.682 1.00 24.63	С
ATOM	1988 CE2 PHE A 349	-7.545 38.567 39.648 1.00 24.62	С
ATOM	1990 CD2 PHE A 349	-6.963 39.401 38.672 1.00 24.98	C
ATOM	1992 C PHE A 349	-3.599 38.948 36.483 1.00 25.03	С
ATOM	1993 O PHE A 349	-3.144 37.955 37.067 1.00 24.41	О
ATOM	1994 N ILE A 350	-4.074 38.889 35.235 1.00 24.18	N
ATOM	1996 CA ILE A 350	-4.278 37.609 34.540 1.00 23.99	С
ATOM	1998 CB ILE A 350	-4.933 37.800 33.128 1.00 24.26	С
ATOM	2000 CG1 ILE A 350	-6.324 38.448 33.230 1.00 24.09	С
ATOM	2003 CD1 ILE A 350	-6.874 39.041 31.931 1.00 22.81	С
ATOM	2007 CG2 ILE A 350	-5.044 36.428 32.384 1.00 23.98	С
ATOM	2011 C ILE A 350	-3.007 36.795 34.367 1.00 24.02	C
	2012 O ILE A 350		O
	2013 N ASN A 351	-1.939 37.437 33.900 1.00 24.57	N
ATOM	2015 CA ASN A 351	-0.691 36.723 33.604 1.00 24.66	С
ATOM	2017 CB ASN A 351	0.256 37.568 32.756 1.00 24.65	С
ATOM	2020 CG ASN A 351	-0.263 37.755 31.365 1.00 24.79	С
ATOM	2021 OD1 ASN A 351	-0.740 36.809 30.730 1.00 25.11	О
ATOM	2022 ND2 ASN A 351	-0.222 38.982 30.892 1.00 24.98	N
<b>ATOM</b>	2025 C ASN A 351	0.012 36.151 34.830 1.00 24.62	С
ATOM		0.413 34.991 34.802 1.00 24.84	Ο
ATOM		0.185 36.928 35.896 1.00 24.40	N
ATOM		0.565 36.314 37.173 1.00 24.15	С
ATOM	2030 CB PRO A 352	0.393 37.454 38.176 1.00 23.99	C
ATOM	2033 CG PRO A 352	0.645 38.687 37.385 1.00 23.81	С

ATOM	2036 CD PRO A 352	0.145 38.402 35.981 1.00 24.27	С
ATOM	2039 C PRO A 352	-0.305 35.097 37.501 1.00 24.08	C
ATOM	2040 O PRO A 352	0.268 34.092 37.910 1.00 24.00	Ο
ATOM	2041 N ILE A 353		N
ATOM	2043 CA ILE A 353	-2.513 34.032 37.611 1.00 24.11	C
ATOM	2045 CB ILE A 353	-4.027 34.332 37.278 1.00 23.92	C
ATOM		-4.660 35.407 38.154 1.00 24.70	C
<b>ATOM</b>	2050 CD1 ILE A 353	-3.813 35.848 39.332 1.00 28.00	C
ATOM	2054 CG2 ILE A 353	-4.852 33.114 37.471 1.00 24.44	C
ATOM	2058 C ILE A 353	-2.070 32.773 36.862 1.00 23.97	C
ATOM	2059 O ILE A 353		О
<b>ATOM</b>		-1.780 32.923 35.576 1.00 23.97	N
		-1.463 31.771 34.734 1.00 23.93	C
<b>ATOM</b>	2064 CB PHE A 354	-1.866 32.054 33.272 1.00 23.88	С
		-3.334 31.845 33.018 1.00 24.57	C
ATOM		-4.239 32.879 33.188 1.00 25.04	C
ATOM		-5.604 32.668 32.990 1.00 25.36	C
ATOM		-6.070 31.415 32.643 1.00 25.16	C
ATOM		-5.180 30.369 32.490 1.00 25.40	С
		-3.819 30.585 32.680 1.00 25.46	C
	2078 C PHE A 354	-0.001 31.293 34.882 1.00 23.75	C
ATOM	2079 O PHE A 354		О
ATOM	2080 N GLU A 355		N
ATOM			C
ATOM			C
ATOM	2087 CG GLU A 355	4.057 33.423 34.254 1.00 25.53	С
ATOM	2090 CD GLU A 355		C
ATOM	2091 OE1 GLU A 355		0
	2092 OE2 GLU A 355		О
<b>ATOM</b>	2093 C GLU A 355		C
ATOM	2094 O GLU A 355		О
ATOM	2095 N PHE A 356		N
ATOM		1.651 30.923 39.019 1.00 23.10	С
			C
	2102 CG PHE A 356	0.654 31.026 41.356 1.00 22.02	С
	2103 CD1 PHE A 356		C
	2105 CE1 PHE A 356		С
	2107 CZ PHE A 356		С
ATOM	2109 CE2 PHE A 356	-0.629 29.712 42.920 1.00 19.39	С
ATOM	2111 CD2 PHE A 356	-0.520 30.384 41.708 1.00 20.33	C
ATOM	2113 C PHE A 356	1.079 29.496 38.863 1.00 23.18	С
ATOM	2114 O PHE A 356	1.585 28.567 39.485 1.00 22.73	О
	2115 N SER A 357	0.036 29.340 38.047 1.00 23.58	N
	2117 CA SER A 357	-0.638 28.052 37.853 1.00 24.38	С
	2119 CB SER A 357	-1.936 28.239 37.079 1.00 24.48	С
	2122 OG SER A 357	-2.976 28.664 37.937 1.00 26.05	О
	2124 C SER A 357	0.200 27.009 37.128 1.00 24.85	С
ATOM	2125 O SER A 357	0.182 25.831 37.494 1.00 24.59	0

ATOM	2126 N ARG A 358	0.917 27.425 36.088 1.00 25.95	N
	2128 CA ARG A 358	1.782 26.483 35.367 1.00 27.12	С
ATOM	2130 CB ARG A 358	1.976 26.867 33.880 1.00 27.46	C
ATOM	2133 CG ARG A 358	3.024 27.913 33.582 1.00 29.56	С
ATOM	2136 CD ARG A 358	3.154 28.226 32.100 1.00 31.01	С
ATOM	2139 NE ARG A 358		N
			C
ATOM		2.985 31.089 31.893 1.00 33.79	N
ATOM	2145 NH2 ARG A 358	0.857 30.907 31.028 1.00 33.55	N
ATOM	2148 C ARG A 358	3.103 26.224 36.112 1.00 27.17	C
ATOM	2149 O ARG A 358		Ö
	2150 N ALA A 359		N
ATOM		4.512 26.874 37.990 1.00 27.03	C
ATOM		4.853 28.144 38.735 1.00 27.05	C
		4.075 25.781 38.969 1.00 27.46	c
ATOM		4.809 24.807 39.187 1.00 27.65	Ö
	2159 O ALA A 359		N
ATOM		2.880 25.933 39.546 1.00 27.66	C
ATOM	2162 CA MET A 360	2.373 24.975 40.525 1.00 28.05	C
ATOM	2164 CB MET A 360	0.987 25.384 41.046 1.00 28.08	C
ATOM		0.942 26.547 42.071 1.00 27.69	
ATOM		1.915 26.352 43.592 1.00 27.13	S C
ATOM		1.595 24.685 44.069 1.00 28.65	
ATOM		2.291 23.574 39.927 1.00 28.76	С
	2176 O MET A 360	2.481 22.576 40.622 1.00 28.81	0
	2177 N ARG A 361	2.014 23.497 38.632 1.00 29.78	N
ATOM		1.901 22.209 37.987 1.00 30.55	C
ATOM		1.279 22.306 36.595 1.00 31.44	C
		0.297 21.164 36.300 1.00 34.83	C
ATOM	2187 CD ARG A 361	-0.993 21.243 37.162 1.00 38.23	С
ATOM		-1.927 20.156 36.869 1.00 40.93	N
ATOM	2192 CZ ARG A 361		С
ATOM	2193 NH1 ARG A 361		N
ATOM	2196 NH2 ARG A 361	-3.661 18.710 37.323 1.00 44.88	N
ATOM	2199 C ARG A 361	3.246 21.565 37.896 1.00 30.15	С
ATOM	2200 O ARG A 361	3.359 20.371 38.107 1.00 30.69	O
ATOM	2201 N ARG A 362	4.276 22.337 37.585 1.00 29.71	N
ATOM	2203 CA ARG A 362	5.604 21.754 37.443 1.00 29.44	С
ATOM	2205 CB ARG A 362	6.588 22.765 36.849 1.00 29.94	С
ATOM	2208 CG ARG A 362	6.363 23.028 35.349 1.00 31.37	С
ATOM	2211 CD ARG A 362	7.317 24.070 34.731 1.00 33.77	С
	2214 NE ARG A 362	6.811 25.447 34.850 1.00 35.63	N
	2216 CZ ARG A 362	7.316 26.403 35.645 1.00 36.81	С
ATOM		8.367 26.174 36.434 1.00 36.78	N
ATOM		6.744 27.610 35.655 1.00 37.45	N
	2223 C ARG A 362	6.099 21.209 38.776 1.00 28.50	C
ATOM		7.013 20.396 38.805 1.00 28.18	O
	2225 N LEU A 363	5.483 21.656 39.872 1.00 27.78	N
	2227 CA LEU A 363	5.747 21.103 41.203 1.00 27.03	С

ATOM	2229 CB LEU A 363	5.261 22.052 42.294 1.00 27.15	С
<b>ATOM</b>	2232 CG LEU A 363	6.317 22.968 42.901 1.00 27.99	С
<b>ATOM</b>	2234 CD1 LEU A 363	5.718 23.584 44.144 1.00 28.97	С
ATOM	2238 CD2 LEU A 363	7.639 22.267 43.221 1.00 27.80	С
<b>ATOM</b>	2242 C LEU A 363	5.086 19.760 41.414 1.00 26.11	C
<b>ATOM</b>	2243 O LEU A 363	5.516 18.993 42.264 1.00 25.45	Ο
<b>ATOM</b>	2244 N GLY A 364	3.998 19.520 40.683 1.00 25.50	N
ATOM	2246 CA GLY A 364	3.311 18.232 40.658 1.00 24.98	C
ATOM	2249 C GLY A 364	2.745 17.795 42.004 1.00 24.25	C
ATOM	2250 O GLY A 364	2.925 16.642 42.406 1.00 23.67	Ο
ATOM	2251 N LEU A 365	2.074 18.711 42.703 1.00 23.67	N
<b>ATOM</b>	2253 CA LEU A 365	1.633 18.436 44.064 1.00 23.27	C
<b>ATOM</b>	2255 CB LEU A 365	1.135 19.691 44.766 1.00 23.36	С
<b>ATOM</b>	2258 CG LEU A 365	2.081 20.897 44.888 1.00 23.89	C
<b>ATOM</b>	2260 CD1 LEU A 365	1.566 21.799 46.021 1.00 24.37	С
ATOM	2264 CD2 LEU A 365	3.522 20.500 45.144 1.00 23.24	С
ATOM	2268 C LEU A 365	0.519 17.450 43.954 1.00 22.78	C
<b>ATOM</b>	2269 O LEU A 365	-0.112 17.370 42.916 1.00 22.26	Ο
<b>ATOM</b>	2270 N ASP A 366	0.308 16.674 45.004 1.00 22.71	N
<b>ATOM</b>	2272 CA ASP A 366	-0.795 15.727 45.029 1.00 22.95	C
<b>ATOM</b>	2274 CB ASP A 366	-0.336 14.301 45.373 1.00 23.14	C
<b>ATOM</b>	2277 CG ASP A 366	0.253 14.182 46.751 1.00 23.28	C
ATOM	2278 OD1 ASP A 366	-0.120 14.985 47.633 1.00 23.31	0
<b>ATOM</b>	2279 OD2 ASP A 366	1.106 13.311 47.033 1.00 22.90	Ο
<b>ATOM</b>	2280 C ASP A 366	-1.800 16.272 45.999 1.00 22.93	C
<b>ATOM</b>	2281 O ASP A 366	-1.631 17.377 46.495 1.00 23.08	O
<b>ATOM</b>	2282 N ASP A 367	-2.845 15.515 46.268 1.00 22.85	N
<b>ATOM</b>	2284 CA ASP A 367	-3.944 16.038 47.053 1.00 23.13	C
<b>ATOM</b>	2286 CB ASP A 367	-5.094 15.076 46.957 1.00 23.79	С
<b>ATOM</b>	2289 CG ASP A 367	-5.767 15.134 45.615 1.00 26.26	С
<b>ATOM</b>	2290 OD1 ASP A 367	-5.410 16.052 44.832 1.00 29.21	0
<b>ATOM</b>	2291 OD2 ASP A 367	-6.672 14.327 45.278 1.00 29.18	О
<b>ATOM</b>	2292 C ASP A 367	-3.604 16.285 48.513 1.00 22.72	С
ATOM	2293 O ASP A 367	-4.091 17.240 49.098 1.00 23.37	O
<b>ATOM</b>	2294 N ALA A 368	-2.782 15.427 49.105 1.00 22.13	N
<b>ATOM</b>	2296 CA ALA A 368	-2.327 15.625 50.473 1.00 21.71	C
	2298 CB ALA A 368	-1.598 14.398 50.954 1.00 21.22	C
<b>ATOM</b>	2302 C ALA A 368	-1.434 16.880 50.618 1.00 22.03	C
	2303 O ALA A 368	-1.474 17.563 51.641 1.00 22.09	0
<b>ATOM</b>	2304 N GLU A 369	-0.628 17.179 49.599 1.00 21.94	N
<b>ATOM</b>	2306 CA GLU A 369	0.285 18.310 49.650 1.00 21.54	С
<b>ATOM</b>	2308 CB GLU A 369	1.361 18.159 48.582 1.00 21.65	С
ATOM	2311 CG GLU A 369	2.375 17.068 48.907 1.00 21.25	С
	2314 CD GLU A 369	3.307 16.706 47.741 1.00 22.31	C
	2315 OE1 GLU A 369	4.524 16.482 47.989 1.00 24.33	О
	2316 OE2 GLU A 369	2.847 16.614 46.580 1.00 19.72	Ο
ATOM	2317 C GLU A 369	-0.484 19.627 49.512 1.00 21.69	C
ATOM	2318 O GLU A 369	-0.353 20.493 50.340 1.00 21.18	Ο

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ATOM	2319 N TYR A 370	-1.299 19.767 48.473 1.00 22.31	N
ATOM	2321 CA TYR A 370	-2.213 20.909 48.342 1.00 22.52	C
ATOM	2323 CB TYR A 370	-3.228 20.707 47.191 1.00 22.75	С
ATOM	2326 CG TYR A 370	-2.802 21.366 45.907 1.00 25.00	С
ATOM	2327 CD1 TYR A 370		C
ATOM	2329 CE1 TYR A 370		С
ATOM	2331 CZ TYR A 370		С
ATOM	2332 OH TYR A 370	-1.540 23.144 42.305 1.00 28.74	0
ATOM		-2.333 23.373 44.580 1.00 27.58	С
	2336 CD2 TYR A 370		C
	2338 C TYR A 370	-2.997 21.160 49.616 1.00 22.24	C
ATOM			Ō
		-3.605 20.120 50.179 1.00 22.32	N
		-4.424 20.293 51.395 1.00 22.38	C
ATOM		-5.081 18.983 51.810 1.00 22.91	Č
ATOM	2348 C ALA A 371	-3.601 20.842 52.558 1.00 22.05	C
ATOM	2349 O ALA A 371		ŏ
ATOM	2350 N LEU A 372		N
ATOM		-1.548 20.728 53.842 1.00 20.94	C
		-0.337 19.796 54.003 1.00 20.87	Č
ATOM	2357 CG LEU A 372		C
	2359 CD1 LEU A 372		C
		-0.718 18.807 56.263 1.00 20.65	C
ATOM		-1.076 22.161 53.583 1.00 21.01	c
ATOM	2367 C LEU A 372		o
	2368 O LEU A 372		N
	2369 N LEU A 373		C
		-0.300 23.880 52.027 1.00 20.73	
ATOM	23/3 CB LEU A 3/3	0.039 24.071 50.541 1.00 20.52	C
		1.497 24.213 50.098 1.00 23.13	C
	2378 CD1 LEU A 373		C
		2.362 25.070 51.047 1.00 23.54	C
ATOM	2386 C LEU A 373		C
ATOM		-1.126 25.974 52.905 1.00 20.59	0
		-2.622 24.424 52.192 1.00 20.20	N
		-3.734 25.283 52.438 1.00 20.59	C
		<b>-4.983 24.733 51.747 1.00 21.07</b>	C
	2394 CG1 ILE A 374	-4.884 25.002 50.231 1.00 21.83	C
		-5.961 24.254 49.403 1.00 21.74	C
	2401 CG2 ILE A 374	-6.275 25.365 52.303 1.00 20.76	C
	2405 C ILE A 374	-3.886 25.464 53.945 1.00 20.73	C
	2406 O ILE A 374	-4.139 26.567 54.424 1.00 20.91	0
	2407 N ALA A 375	-3.702 24.393 54.697 1.00 20.78	N
	2409 CA ALA A 375	-3.782 24.473 56.148 1.00 20.75	C
	2411 CB ALA A 375	-3.617 23.067 56.772 1.00 20.83	C
	2415 C ALA A 375	-2.715 25.434 56.682 1.00 20.38	C
	2416 O ALA A 375	-2.988 26.241 57.574 1.00 20.16	0
-	2417 N ILE A 376	-1.517 25.336 56.113 1.00 19.84	N
ATOM	2419 CA ILE A 376	-0.377 26.141 56.543 1.00 20.41	С

ATOM	2421 CB ILE A 376	0.897 25.644 55.826 1.00 20.33	C
<b>ATOM</b>	2423 CG1 ILE A 376	1.370 24.310 56.403 1.00 19.99	C
<b>ATOM</b>	2426 CD1 ILE A 376	2.304 23.568 55.506 1.00 20.71	C
<b>ATOM</b>	2430 CG2 ILE A 376	1.986 26.677 55.945 1.00 20.98	C
ATOM	2434 C ILE A 376 -	0.600 27.647 56.236 1.00 20.55	С
ATOM	2435 O ILE A 376 -	0.224 28.543 57.002 1.00 19.68	Ο
ATOM	2436 N ASN A 377	-1.225 27.878 55.088 1.00 20.81	N
ATOM	2438 CA ASN A 377	-1.513 29.200 54.614 1.00 21.04	C
ATOM	2440 CB ASN A 377	-1.989 29.136 53.153 1.00 21.22	С
<b>ATOM</b>	2443 CG ASN A 377	-2.338 30.505 52.598 1.00 22.27	C
		-3.408 31.081 52.914 1.00 24.56	O
<b>ATOM</b>	2445 ND2 ASN A 377	-1.448 31.043 51.798 1.00 20.25	N
		-2.541 29.862 55.512 1.00 20.84	C
		-2.489 31.089 55.740 1.00 20.38	Ο
<b>ATOM</b>	2450 N ILE A 378 -	3.462 29.053 56.034 1.00 21.08	N
ATOM	2452 CA ILE A 378	-4.529 29.562 56.892 1.00 21.21	$\mathbf{C}$
<b>ATOM</b>	2454 CB ILE A 378	-5.634 28.531 57.127 1.00 21.70	C
<b>ATOM</b>	2456 CG1 ILE A 378	-6.486 28.327 55.853 1.00 20.73	C
<b>ATOM</b>	2459 CD1 ILE A 378	-7.264 27.065 55.878 1.00 19.57	С
<b>ATOM</b>	2463 CG2 ILE A 378	-6.544 28.984 58.301 1.00 22.97	C
ATOM	2467 C ILE A 378 -:	3.961 30.003 58.203 1.00 21.49	C
<b>ATOM</b>	2468 O ILE A 378	4.394 31.034 58.713 1.00 21.85	O
ATOM	2469 N PHE A 379	-2.974 29.263 58.733 1.00 21.69	N
<b>ATOM</b>	2471 CA PHE A 379	-2.409 29.556 60.067 1.00 21.80	С
ATOM	2473 CB PHE A 379	-2.147 28.276 60.911 1.00 21.76	C
		-3.395 27.467 61.220 1.00 20.36	C
ATOM	2477 CD1 PHE A 379	-3.511 26.143 60.786 1.00 18.89	C
ATOM	2479 CE1 PHE A 379	-4.645 25.422 61.064 1.00 19.73	С
ATOM	2481 CZ PHE A 379	-5.682 25.999 61.769 1.00 18.74	C
ATOM	2483 CE2 PHE A 379	-5.569 27.309 62.205 1.00 19.76	C
ATOM	2485 CD2 PHE A 379	-4.436 28.028 61.937 1.00 18.90	С
ATOM	2487 C PHE A 379	-1.139 30.352 59.931 1.00 22.55	C
<b>ATOM</b>	2488 O PHE A 379	-0.090 29.996 60.482 1.00 22.46	О
<b>ATOM</b>	2489 N SER A 380	-1.243 31.458 59.209 1.00 23.76	N
<b>ATOM</b>	2491 CA SER A 380	-0.127 32.382 59.072 1.00 24.35	C
<b>ATOM</b>	2493 CB SER A 380	-0.124 33.029 57.692 1.00 24.13	C
<b>ATOM</b>	2496 OG SER A 380	-0.345 32.064 56.683 1.00 23.05	Ο
ATOM	2498 C SER A 380	-0.309 33.418 60.160 1.00 25.51	C
<b>ATOM</b>	2499 O SER A 380	-1.213 34.264 60.083 1.00 26.09	O
<b>ATOM</b>	2500 N ALA A 381	0.531 33.340 61.188 1.00 26.69	N
<b>ATOM</b>	2502 CA ALA A 381	0.394 34.212 62.362 1.00 27.65	C
ATOM	2504 CB ALA A 381	1.430 33.806 63.463 1.00 27.30	C
<b>ATOM</b>	2508 C ALA A 381	0.475 35.749 62.051 1.00 28.30	C
	2509 O ALA A 381	0.037 36.573 62.889 1.00 28.65	0
	2510 N ASP A 382	0.996 36.122 60.867 1.00 28.16	N
	2512 CA ASP A 382	1.318 37.531 60.572 1.00 28.54	С
	2514 CB ASP A 382	2.667 37.575 59.922 1.00 28.78	C
ATOM	2517 CG ASP A 382	2.584 37.247 58.492 1.00 29.48	C

ATOM	2518 OD1 ASP A 382	2.104 36.136 58.165 1.00 26.57	Ο
ATOM	2519 OD2 ASP A 382	2.930 38.082 57.641 1.00 34.31	Ο
ATOM	2520 C ASP A 382	0.313 38.290 59.662 1.00 28.41	С
ATOM	2521 O ASP A 382		О
ATOM	2522 N ARG A 383		N
ATOM	2524 CA ARG A 383	-1.977 38.477 58.903 1.00 26.83	C
ATOM	2526 CB ARG A 383	-3.180 37.536 58.794 1.00 26.90	C
ATOM	2529 CG ARG A 383	-2.886 36.172 58.168 1.00 24.71	C
ATOM	2532 CD ARG A 383	-2.247 36.284 56.835 1.00 22.46	C
ATOM	2535 NE ARG A 383	-2.429 35.078 56.039 1.00 22.63	N
	2537 CZ ARG A 383		C
		-1.911 36.096 54.033 1.00 22.59	N
ATOM	2541 NH2 ARG A 383	-2.485 33.864 54.054 1.00 20.10	N
ATOM	2544 C ARG A 383	-2.364 39.711 59.685 1.00 26.73	C
ATOM	2545 O ARG A 383	-2.115 39.785 60.871 1.00 26.44	О
		-2.949 40.699 59.029 1.00 26.91	N
		-3.443 41.871 59.740 1.00 26.93	C
<b>ATOM</b>		-4.153 42.678 58.656 1.00 26.92	C
		-3.746 42.114 57.368 1.00 26.82	C
ATOM	2555 CD PRO A 384	-3.150 40.806 57.577 1.00 27.16	C
ATOM		-4.441 41.457 60.795 1.00 26.78	С
ATOM	2559 O PRO A 384	-5.121 40.441 60.606 1.00 26.63	O
ATOM		-4.493 42.233 61.874 1.00 26.52	N
ATOM	2562 CA ASN A 385	-5.530 42.137 62.905 1.00 26.44	C
ATOM	2564 CB ASN A 385	-6.920 42.470 62.317 1.00 26.43	C
ATOM	2567 CG ASN A 385	-7.051 43.921 61.879 1.00 25.91	C
ATOM	2568 OD1 ASN A 385	-6.402 44.828 62.419 1.00 25.48	О
ATOM	2569 ND2 ASN A 385	-7.913 44.148 60.907 1.00 24.36	N
ATOM	2572 C ASN A 385	-5.600 40.827 63.702 1.00 26.20	С
ATOM	2573 O ASN A 385	-6.591 40.589 64.387 1.00 26.57	O
ATOM	2574 N VAL A 386	-4.553 40.007 63.661 1.00 25.70	N
<b>ATOM</b>	2576 CA VAL A 386	-4.521 38.785 64.451 1.00 25.44	С
ATOM	2578 CB VAL A 386	-3.567 37.770 63.833 1.00 25.52	С
ATOM	2580 CG1 VAL A 386	-3.157 36.694 64.848 1.00 26.16	С
ATOM	2584 CG2 VAL A 386	-4.232 37.137 62.635 1.00 25.40	С
ATOM	2588 C VAL A 386	-4.149 39.078 65.905 1.00 25.38	C
ATOM	2589 O VAL A 386	-3.061 39.545 66.197 1.00 25.07	Ο
ATOM	2590 N GLN A 387	-5.073 38.791 66.811 1.00 25.79	N
<b>ATOM</b>	2592 CA GLN A 387	-4.911 39.093 68.229 1.00 26.17	С
ATOM	2594 CB GLN A 387	-6.295 39.216 68.904 1.00 26.48	С
<b>ATOM</b>	2597 CG GLN A 387	-7.088 40.481 68.475 1.00 28.11	С
<b>ATOM</b>	2600 CD GLN A 387	-8.426 40.650 69.216 1.00 31.36	С
ATOM	2601 OE1 GLN A 387	-8.449 40.881 70.443 1.00 31.98	Ο
ATOM	2602 NE2 GLN A 387	-9.542 40.555 68.471 1.00 32.05	N
ATOM	2605 C GLN A 387	-4.007 38.089 68.953 1.00 25.93	С
ATOM	2606 O GLN A 387	-3.273 38.469 69.861 1.00 25.80	Ο
ATOM	2607 N GLU A 388	-4.033 36.827 68.517 1.00 25.99	N
ATOM	2609 CA GLU A 388	-3.272 35.729 69.146 1.00 26.03	С

ATOM 261	1 CD CIII A 200	-4.235 34.652 69.672 1.00 26.23	C
ATOM 261	L CB GLU A 388	-5.309 35.179 70.609 1.00 27.00	C C
ATOM 2614	7 CD CLUA 388	-5.828 34.133 71.581 1.00 28.08	C
ATOM 261	/ CD GLU A 388	-6.191 33.011 71.159 1.00 28.82	0
ATOM 261	OF CLILA 200	-0.191 33.011 /1.139 1.00 20.02	0
		-5.901 34.448 72.780 1.00 29.76	c
		-2.269 35.065 68.192 1.00 25.65	
		-2.452 33.901 67.811 1.00 25.73	O N
	2 N PRO A 389		
ATOM 262	3 CA PRO A 389	-0.245 35.269 66.836 1.00 24.68	С
ATOM 262.	S CB PRO A 389	0.675 36.475 66.599 1.00 24.77 0.514 37.324 67.759 1.00 24.58	C
ATOM 262	8 CG PRO A 389	0.514 37.324 67.759 1.00 24.58	C
		-0.897 37.167 68.208 1.00 24.91	С
		0.559 34.059 67.322 1.00 24.43	C
		0.934 33.206 66.520 1.00 24.28	0
		0.835 34.001 68.620 1.00 24.41	N
ATOM 263	8 CA GLY A 390	1.469 32.842 69.227 1.00 24.29	С
ATOM 264	1 C GLY A 390	0.642 31.565 69.086 1.00 24.54	C
ATOM 264	2 O GLY A 390	1.192 30.507 68.758 1.00 24.52 -0.674 31.649 69.311 1.00 24.39	0
ATOM 264	3 N ARG A 391	-0.674 31.649 69.311 1.00 24.39	N
		-1.537 30.480 69.177 1.00 24.60	C
		-2.937 30.728 69.739 1.00 24.91	С
		-2.931 31.219 71.174 1.00 28.18	
		-4.110 30.745 72.041 1.00 32.93	
ATOM 265	6 NE ARG A 391	-5.295 30.355 71.260 1.00 36.71	N
ATOM 265	8 CZ ARG A 391	-5.933 29.178 71.363 1.00 41.04	C .
ATOM 265	9 NH1 ARG A 391	-5.504 28.232 72.215 1.00 43.07	
ATOM 266	2 NH2 ARG A 391	-7.015 28.936 70.607 1.00 40.78	N
		-1.640 30.049 67.726 1.00 24.04	C
		-1.743 28.855 67.445 1.00 24.57	0
		-1.610 31.004 66.802 1.00 23.34	
		-1.699 30.675 65.385 1.00 22.50	
ATOM 267	1 CB VAL A 392	-2.007 31.906 64.539 1.00 22.35	С
ATOM 267	3 CG1 VAL A 392	-1.875 31.590 63.059 1.00 21.93	C
		-3.413 32.420 64.865 1.00 22.07	
	1 C VAL A 392		С
	2 O VAL A 392	-0.459 29.037 64.197 1.00 22.06	0
ATOM 268	3 N GLU A 393	0.741 30.505 65.375 1.00 22.38	N
ATOM 268	5 CA GLU A 393	2.000 29.902 64.929 1.00 23.18	C
ATOM 268	7 CB GLU A 393	3.233 30.735 65.318 1.00 23.56	С
ATOM 269	0 CG GLU A 393	4.539 30.125 64.805 1.00 24.92	С
ATOM 269	3 CD GLU A 393	5.749 31.038 64.954 1.00 27.27	С
ATOM 269	4 OE1 GLU A 393	6.631 31.069 64.069 1.00 30.57	0
ATOM 269	5 OE2 GLU A 393	5.849 31.703 65.977 1.00 30.03	О
ATOM 269	6 C GLU A 393	2.160 28.460 65.429 1.00 23.15	C
ATOM 269	7 O GLU A 393	2.738 27.617 64.729 1.00 23.90	0
ATOM 269	8 N ALA A 394	1.640 28.177 66.623 1.00 22.56	N
	0 CA ALA A 394		С
ATOM 270	2 CB ALA A 394	1.337 26.847 68.667 1.00 21.66	C

ATOM	2706 C ALA A 394	0.794 25.919 66.389 1.00 21.49	С
ATOM		1.110 24.758 66.206 1.00 20.85	Ο
ATOM	2708 N LEU A 395	-0.344 26.425 65.915 1.00 21.67	N
ATOM	2710 CA LEU A 395	-1.212 25.612 65.037 1.00 21.93	С
	2712 CB LEU A 395	-2.577 26.268 64.833 1.00 22.07	C
ATOM	2715 CG LEU A 395	-3.454 26.406 66.085 1.00 23.60	C
ATOM	2717 CD1 LEU A 395	-4.753 27.161 65.747 1.00 23.46	С
ATOM	2721 CD2 LEU A 395	-3.770 25.073 66.709 1.00 24.27	С
ATOM	2725 C LEU A 395	-0.548 25.304 63.672 1.00 21.30	C
ATOM	2726 O LEU A 395	-0.693 24.209 63.134 1.00 20.06	Ο
ATOM	2727 N GLN A 396	0.208 26.256 63.145 1.00 21.27	N
ATOM	2729 CA GLN A 396	0.908 26.020 61.893 1.00 21.75	C
ATOM	2731 CB GLN A 396	1.681 27.246 61.426 1.00 21.90	C
ATOM	2734 CG GLN A 396	1.919 27.177 59.945 1.00 21.80	С
ATOM	2737 CD GLN A 396	2.598 28.386 59.409 1.00 21.70	C
ATOM	2738 OE1 GLN A 396	2.052 29.057 58.532 1.00 24.11	Ο
ATOM	2739 NE2 GLN A 396	3.787 28.674 59.903 1.00 19.79	N
ATOM	2742 C GLN A 396	1.878 24.871 61.995 1.00 21.52	C
ATOM	2743 O GLN A 396	1.908 23.996 61.128 1.00 21.54	O
ATOM	2744 N GLN A 397	2.641 24.879 63.080 1.00 21.23	N
ATOM	2746 CA GLN A 397	3.788 23.997 63.248 1.00 21.05	С
ATOM	2748 CB GLN A 397	4.347 24.082 64.680 1.00 21.37	C
ATOM	2751 CG GLN A 397	5.532 23.159 64.942 1.00 24.36	С
ATOM	2754 CD GLN A 397	6.140 23.289 66.353 1.00 28.63	С
ATOM	2755 OE1 GLN A 397	6.069 24.359 66.995 1.00 30.75	Ο
ATOM	2756 NE2 GLN A 397	6.758 22.198 66.827 1.00 29.08	N
ATOM	2759 C GLN A 397	3.538 22.563 62.834 1.00 19.99	$\mathbf{C}$
ATOM	2760 O GLN A 397	4.297 22.055 62.042 1.00 19.80	Ο
ATOM	2761 N PRO A 398	2.528 21.894 63.383 1.00 19.52	N
ATOM	2762 CA PRO A 398	2.304 20.475 63.055 1.00 19.27	$\mathbf{C}$
ATOM	2764 CB PRO A 398	1.093 20.046 63.932 1.00 18.97	C
ATOM	2767 CG PRO A 398	0.577 21.261 64.580 1.00 19.38	C
ATOM	2770 CD PRO A 398	1.579 22.373 64.401 1.00 19.53	C
<b>ATOM</b>	2773 C PRO A 398	2.017 20.226 61.599 1.00 18.62	C
ATOM	2774 O PRO A 398	2.396 19.166 61.131 1.00 18.35	Ο
ATOM	2775 N TYR A 399	1.362 21.149 60.913 1.00 18.36	. N
ATOM	2777 CA TYR A 399	1.100 20.973 59.479 1.00 19.20	C
<b>ATOM</b>	2779 CB TYR A 399	0.005 21.966 59.000 1.00 19.17	C
ATOM	2782 CG TYR A 399	-1.355 21.732 59.618 1.00 18.45	С
<b>ATOM</b>	2783 CD1 TYR A 399	-1.829 22.549 60.636 1.00 18.83	C
<b>ATOM</b>	2785 CE1 TYR A 399	-3.057 22.320 61.232 1.00 17.80	С
<b>ATOM</b>	2787 CZ TYR A 399	-3.841 21.272 60.800 1.00 18.18	С
ATOM	2788 OH TYR A 399	-5.081 21.058 61.386 1.00 19.70	Ο
ATOM	2790 CE2 TYR A 399	-3.391 20.443 59.796 1.00 17.70	С
ATOM	2792 CD2 TYR A 399	-2.153 20.671 59.218 1.00 18.99	C
ATOM	2794 C TYR A 399	2.412 21.095 58.637 1.00 19.46	С
ATOM	2795 O TYR A 399	2.678 20.332 57.704 1.00 19.29	Ο
ATOM	2796 N VALA 400	3.248 22.051 58.999 1.00 20.04	N

ATOM 2700 CA WAT A 400 4 576 22 150 59 401 1 00 20 22	
ATOM 2798 CA VAL A 400 4.576 22.150 58.401 1.00 20.23	С
ATOM 2800 CB VAL A 400 5.335 23.373 58.923 1.00 19.99	С
ATOM 2802 CG1 VAL A 400 6.693 23.459 58.264 1.00 20.63	C
ATOM 2806 CG2 VAL A 400 4.545 24.631 58.611 1.00 18.88	C
ATOM 2810 C VAL A 400 5.356 20.856 58.610 1.00 20.10	C
ATOM 2811 O VAL A 400 5.874 20.301 57.662 1.00 19.94	O
ATOM 2812 N GLU A 401 5.385 20.383 59.851 1.00 20.78	·N
ATOM 2814 CA GLU A 401 5.907 19.053 60.237 1.00 21.23	С
ATOM 2816 CB GLU A 401 5.662 18.795 61.744 1.00 21.63	C
ATOM 2819 CG GLU A 401 6.803 19.248 62.663 1.00 24.26	С
ATOM 2822 CD GLU A 401 6.540 19.034 64.151 1.00 26.48	С
ATOM 2823 OE1 GLU A 401 7.129 19.744 64.999 1.00 28.12	0
ATOM 2824 OE2 GLU A 401 5.746 18.144 64.479 1.00 29.48	0
ATOM 2825 C GLU A 401 5.334 17.886 59.407 1.00 20.90	С
ATOM 2826 O GLU A 401 6.073 17.001 58.972 1.00 20.52	O
ATOM 2827 N ALA A 402 4.023 17.889 59.188 1.00 20.76	N
ATOM 2829 CA ALA A 402 3.365 16.817 58.442 1.00 20.68	С
ATOM 2831 CB ALA A 402 1.869 16.916 58.596 1.00 20.69	С
ATOM 2835 C ALA A 402 3.744 16.876 56.978 1.00 20.91	C
ATOM 2836 O ALA A 402 3.914 15.863 56.324 1.00 20.41	Ο
ATOM 2837 N LEU A 403 3.896 18.085 56.464 1.00 21.89	N
ATOM 2839 CA LEU A 403 4.295 18.257 55.078 1.00 22.32	C
ATOM 2841 CB LEU A 403 4.143 19.707 54.644 1.00 22.16	C
ATOM 2844 CG LEU A 403 4.369 19.853 53.144 1.00 21.61	C.
ATOM 2846 CD1 LEU A 403 3.587 18.856 52.322 1.00 20.69	С
ATOM 2850 CD2 LEU A 403 3.947 21.218 52.799 1.00 22.87	C
ATOM 2854 C LEU A 403 5.733 17.827 54.892 1.00 22.58	C
ATOM 2855 O LEU A 403 6.058 17.156 53.943 1.00 22.65	O
ATOM 2856 N LEU A 404 6.578 18.222 55.831 1.00 22.95	N
ATOM 2858 CA LEU A 404 7.988 17.888 55.804 1.00 23.22	C
ATOM 2860 CB LEU A 404 8.680 18.526 57.003 1.00 23.73	C
ATOM 2863 CG LEU A 404 10.167 18.248 57.246 1.00 25.22	С
ATOM 2865 CD1 LEU A 404 10.988 18.355 55.960 1.00 26.22	
ATOM 2869 CD2 LEU A 404 10.661 19.235 58.317 1.00 25.99	C
ATOM 2873 C LEU A 404 8.186 16.389 55.807 1.00 22.91	C
ATOM 2874 O LEU A 404 8.788 15.852 54.905 1.00 23.02	О
ATOM 2875 N SER A 405 7.683 15.710 56.825 1.00 23.04	N
ATOM 2877 CA SER A 405 7.651 14.251 56.821 1.00 23.28	C
ATOM 2879 CB SER A 405 6.783 13.714 57.965 1.00 23.37	С
ATOM 2882 OG SER A 405 7.253 14.169 59.216 1.00 25.09	0
ATOM 2884 C SER A 405 7.110 13.688 55.498 1.00 23.06	C
ATOM 2885 O SER A 405 7.705 12.763 54.935 1.00 22.72	Ο
ATOM 2886 N TYR A 406 5.997 14.249 55.006 1.00 22.61	N
ATOM 2888 CA TYR A 406 5.317 13.678 53.848 1.00 22.23	С
ATOM 2890 CB TYR A 406 3.977 14.351 53.587 1.00 22.04	С
ATOM 2893 CG TYR A 406 3.146 13.720 52.472 1.00 21.34	С
ATOM 2894 CD1 TYR A 406 2.099 12.831 52.747 1.00 20.83	С
ATOM 2896 CE1 TYR A 406 1.331 12.293 51.734 1.00 18.73	С

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ATOM	2898	CZ TYR A 406	1.620 12.628 50.449 1.00 19.07	С
ATOM			0.919 12.123 49.410 1.00 19.33	Ο
ATOM		CE2 TYR A 406	2.631 13.484 50.154 1.00 20.65	С
ATOM		CD2 TYR A 406	3.380 14.035 51.155 1.00 20.77	C
ATOM	2905		6.178 13.752 52.607 1.00 22.21	С
ATOM	2906		6.249 12.785 51.862 1.00 22.49	Ō
ATOM		N THR A 407		N
ATOM		CA THR A 407		C
ATOM		CB THR A 407		Č
ATOM		OG1 THR A 407	8.488 17.222 52.080 1.00 21.50	o
ATOM		CG2 THR A 407	6.593 17.407 50.770 1.00 22.13	č
ATOM		C THR A 407	8.932 14.351 51.263 1.00 23.93	c
ATOM	2920		9.482 13.979 50.241 1.00 23.74	Ö
		N ARG A 408	9.405 14.112 52.480 1.00 25.87	N
ATOM			10.599 13.294 52.710 1.00 27.83	C
ATOM				C
ATOM			10.933 13.250 54.213 1.00 28.51	C
ATOM			12.394 13.539 54.562 1.00 31.44	
ATOM			12.882 12.825 55.833 1.00 35.67	C
ATOM		NE ARG A 408		N
ATOM		CZ ARG A 408		C
ATOM		NH1 ARG A 408		N
ATOM		NH2 ARG A 408		N
ATOM				C
ATOM				О
ATOM		N ILE A 409	9.281 11.268 52.642 1.00 29.53	N
ATOM		CA ILE A 409	8.872 9.924 52.265 1.00 30.35	C
ATOM		CB ILE A 409	7.666 9.467 53.175 1.00 30.47	C
ATOM	2951	CG1 ILE A 409	8.186 8.932 54.520 1.00 31.08	С
ATOM		CD1 ILE A 409	7.398 9.410 55.744 1.00 31.67	C
ATOM	2958	CG2 ILE A 409	6.795 8.411 52.500 1.00 30.57	C
ATOM	2962		8.557 9.837 50.761 1.00 31.14	C
ATOM	2963	O ILE A 409	9.217 9.071 50.071 1.00 31.25	O
ATOM	2964	N LYS A 410	7.589 10.624 50.259 1.00 32.00	N
<b>ATOM</b>	2966	CA LYS A 410	7.123 10.541 48.850 1.00 32.62	C
ATOM	2968	CB LYS A 410	6.127 11.667 48.526 1.00 32.88	C
ATOM	2971	CG LYS A 410	5.514 11.602 47.095 1.00 33.17	C
ATOM	2974	CD LYS A 410	4.444 12.698 46.841 1.00 33.49	С
ATOM	2977	CE LYS A 410	4.438 13.174 45.378 1.00 33.29	С
		NZ LYS A 410	3.211 13.935 45.003 1.00 32.16	N
		C LYS A 410	8.273 10.609 47.841 1.00 33.12	С
		O LYS A 410	8.434 9.725 46.983 1.00 33.01	O
		N ARG A 411	9.053 11.679 47.948 1.00 33.44	N
ATOM		CA ARG A 411	10.242 11.862 47.136 1.00 33.71	С
ATOM		CB ARG A 411	10.072 13.060 46.168 1.00 34.06	C
ATOM		CG ARG A 411	8.655 13.228 45.502 1.00 35.84	C
ATOM		CD ARG A 411	8.454 12.449 44.177 1.00 38.37	Č
ATOM		NE ARG A 411	7.134 12.657 43.528 1.00 40.21	N
		CZ ARG A 411	6.559 11.815 42.631 1.00 40.45	C
ATOM,	2001	OL MOATH	0.557 11.015 (2.051 1.00 10.15	Ŭ

ATOM	3002 NH1 ARG A 411	7.155 10.684 42.253 1.00 40.72	N
ATOM	3005 NH2 ARG A 411		N
ATOM	3008 C ARG A 411	11.444 12.014 48.097 1.00 33.34	C
ATOM	3009 O ARG A 411	11.789 13.111 48.527 1.00 33.43	Ο
ATOM	3010 N PRO A 412	12.056 10.898 48.466 1.00 33.09	N
ATOM	3011 CA PRO A 412	13.202 10.927 49.385 1.00 33.19	C
ATOM	3013 CB PRO A 412	13.501 9.432 49.658 1.00 33.32	C
ATOM	3016 CG PRO A 412	12.716 8.619 48.647 1.00 33.16	С
ATOM	3019 CD PRO A 412	11.714 9.535 48.021 1.00 33.23	C
ATOM	3022 C PRO A 412	14.437 11.621 48.813 1.00 33.22	C
<b>ATOM</b>	3023 O PRO A 412	15.207 12.229 49.575 1.00 33.03	O
ATOM	3024 N GLN A 413	14.607 11.535 47.493 1.00 33.27	N
ATOM	3026 CA GLN A 413	15.813 12.018 46.816 1.00 33.09	C
ATOM	3028 CB GLN A 413	16.368 10.897 45.909 1.00 33.13	C
ATOM	3031 CG GLN A 413	17.255 9.849 46.660 1.00 33.32	С
<b>ATOM</b>	3034 CD GLN A 413	16.721 8.408 46.605 1.00 33.28	C
ATOM	3035 OE1 GLN A 413	15.538 8.160 46.850 1.00 33.33	Ο
<b>ATOM</b>	3036 NE2 GLN A 413	17.601 7.463 46.295 1.00 32.31	N
<b>ATOM</b>	3039 C GLN A 413	15.544 13.340 46.054 1.00 32.88	C
ATOM	3040 O GLN A 413	16.138 13.603 45.005 1.00 32.60	О
ATOM	3041 N ASP A 414	14.645 14.161 46.612 1.00 32.60	N
ATOM	3043 CA ASP A 414	14.329 15.503 46.099 1.00 32.36	С
ATOM	3045 CB ASP A 414	13.086 15.429 45.214 1.00 32.54	С
ATOM	3048 CG ASP A 414	12.688 16.774 44.593 1.00 33.50	C
ATOM	3049 OD1 ASP A 414	13.470 17.767 44.614 1.00 33.77	О
ATOM	3050 OD2 ASP A 414	11.566 16.899 44.048 1.00 34.43	О
ATOM	3051 C ASP A 414	14.136 16.463 47.295 1.00 31.92	C
ATOM		13.025 16.679 47.774 1.00 31.71	Ο
ATOM	3053 N GLN A 415	15.249 17.024 47.766 1.00 31.57	N
ATOM	3055 CA GLN A 415	15.298 17.798 49.011 1.00 31.04	C
ATOM	3057 CB GLN A 415	16.736 17.897 49.508 1.00 31.40	С
ATOM	3060 CG GLN A 415	17.240 16.632 50.162 1.00 32.60	С
ATOM	3063 CD GLN A 415	18.712 16.677 50.389 1.00 33.34	C
ATOM	3064 OE1 GLN A 415	19.190 17.423 51.249 1.00 34.47	O
ATOM	3065 NE2 GLN A 415	19.450 15.903 49.607 1.00 34.47	N
ATOM	3068 C GLN A 415	14.771 19.203 48.848 1.00 30.16	С
	3069 O GLN A 415	14.345 19.817 49.821 1.00 29.98	О
	3070 N LEU A 416	14.820 19.722 47.626 1.00 29.18	N
ATOM	3072 CA LEU A 416	14.357 21.082 47.378 1.00 28.42	С
	3074 CB LEU A 416	15.154 21.726 46.236 1.00 28.17	С
	3077 CG LEU A 416	16.586 22.199 46.523 1.00 27.41	С
	3079 CD1 LEU A 416	16.934 23.258 45.535 1.00 27.48	С
	3083 CD2 LEU A 416	16.809 22.721 47.931 1.00 26.83	С
	3087 C LEU A 416	12.850 21.174 47.110 1.00 27.89	C
	3088 O LEU A 416	12.302 22.268 47.082 1.00 27.47	О
ATOM	3089 N ARG A 417	12.191 20.037 46.920 1.00 27.59	N
	3091 CA ARG A 417	10.733 20.005 46.738 1.00 27.42	С
ATOM	3093 CB ARG A 417	10.239 18.536 46.727 1.00 27.61	C

ATOM	3096	CG ARG A 417	8.781 18.282 47.141 1.00 29.03	C
ATOM	3099	CD ARG A 417	8.283 16.833 46.853 1.00 30.11	С
			6.873 16.775 46.418 1.00 30.60	N
		CZ ARG A 417		С
ATOM		NH1 ARG A 417		N
ATOM		NH2 ARG A 417		N
		C ARG A 417		C
			9.287 21.793 47.518 1.00 26.04	O
		N PHE A 418	10.294 20.540 49.068 1.00 26.04	N
		CA PHE A 418	9.607 21.200 50.171 1.00 25.76	C
		CB PHE A 418	9.929 20.450 51.455 1.00 26.07	Ç
		CG PHE A 418	9.361 21.061 52.676 1.00 27.39	Č
			8.010 21.270 52.791 1.00 29.73	Č
			7.471 21.816 53.944 1.00 30.72	Č
			8.288 22.139 54.973 1.00 31.57	Č
			9.656 21.926 54.861 1.00 32.00	Ċ
			10.178 21.391 53.727 1.00 29.91	Ċ
			9.893 22.723 50.269 1.00 24.73	С
			8.961 23.522 50.366 1.00 24.46	Ö
			11.155 23.132 50.252 1.00 23.55	N
			11.468 24.556 50.127 1.00 23.35	C
			12.977 24.571 49.841 1.00 22.97	Č
			13.483 23.341 50.426 1.00 22.97	C
			12.372 22.320 50.405 1.00 23.54	Č
		C PRO A 419	10.708 25.219 48.981 1.00 23.25	c
		O PRO A 419	10.708 25.219 48.981 1.00 25.25	ŏ
		N ARG A 420	10.601 24.572 47.819 1.00 22.88	N
ATOM		CA ARG A 420	9.949 25.168 46.648 1.00 22.69	C
				C
ATOM				C
		••		C
		CD ARG A 420		N
		NE ARG A 420		C
ATOM	3162	CZ ARG A 420	13.271 22.382 42.803 1.00 34.58 12.854 21.407 43.622 1.00 36.30	
				N N
ATOM		NH2 ARG A 420	14.449 22.251 42.183 1.00 34.12	
ATOM			8.489 25.423 46.947 1.00 22.04	C
ATOM			7.939 26.438 46.524 1.00 21.89	0
		N MET A 421	7.856 24.504 47.675 1.00 21.52	N
		CA MET A 421	6.450 24.666 48.046 1.00 20.91	C
		CB MET A 421	5.937 23.429 48.739 1.00 20.70	C
		CG MET A 421	5.634 22.299 47.798 1.00 21.02	C
		SD MET A 421	5.218 20.786 48.673 1.00 19.95	S
		CE MET A 421	3.780 21.239 49.263 1.00 22.45	C
		C MET A 421	6.254 25.856 48.955 1.00 20.74	С
ATOM			5.388 26.687 48.737 1.00 20.05	0
		N LEU A 422	7.076 25.951 49.978 1.00 21.30	N
		CA LEU A 422	6.961 27.067 50.892 1.00 21.96	C
ATOM	3192	CB LEU A 422	7.972 26.920 52.048 1.00 22.35	С

 $\mathbf{C}$ 7.795 25.673 52.935 1.00 24.02 ATOM 3195 CG LEU A 422 8.797 25.640 54.084 1.00 25.62  $\mathbf{C}$ ATOM 3197 CD1 LEU A 422 C ATOM 3201 CD2 LEU A 422 6.380 25.531 53.478 1.00 24.35 ATOM 3205 C LEU A 422 7.137 28.371 50.110 1.00 21.76  $\mathbf{C}$ 6.398 29.310 50.305 1.00 22.00 0 ATOM 3206 O LEU A 422 ATOM 3207 N MET A 423 8.078 28.408 49.175 1.00 21.60 N 8.351 29.627 48.411 1.00 21.63 C ATOM 3209 CA MET A 423 9.532 29.401 47.463 1.00 22.48 ATOM 3211 CB MET A 423 ATOM 3214 CG MET A 423 10.871 28.989 48.161 1.00 25.15 11.977 30.338 48.557 1.00 28.49 ATOM 3217 SD MET A 423 12.949 30.359 47.182 1.00 28.75 C ATOM 3218 CE MET A 423 7.152 30.155 47.613 1.00 20.22 C ATOM 3222 C MET A 423 ATOM 3223 O MET A 423 7.067 31.319 47.317 1.00 19.36 O 6.237 29.275 47.253 1.00 19.52 N ATOM 3224 N LYS A 424 4.994 29.675 46.610 1.00 18.74 ATOM 3226 CA LYS A 424 ATOM 3228 CB LYS A 424 4.270 28.457 46.040 1.00 18.77 C 5.017 27.815 44.925 1.00 19.22  $\mathbf{C}$ ATOM 3231 CG LYS A 424 5.115 28.752 43.726 1.00 21.18 C ATOM 3234 CD LYS A 424 ATOM 3237 CE LYS A 424 5.767 28.077 42.502 1.00 22.94 6.592 29.019 41.689 1.00 24.40 N ATOM 3240 NZ LYS A 424 4.069 30.432 47.551 1.00 17.80 C ATOM 3244 C LYS A 424 3.326 31.311 47.114 1.00 16.79 0 ATOM 3245 O LYS A 424 4.112 30.096 48.834 1.00 16.96 ATOM 3246 N LEU A 425 N 3.452 30.940 49.842 1.00 16.90  $\mathbf{C}$ ATOM 3248 CA LEU A 425  $\mathbf{C}$ 3.626 30.388 51.254 1.00 17.39 ATOM 3250 CB LEU A 425  $\mathbf{C}$ ATOM 3253 CG LEU A 425 3.104 28.965 51.501 1.00 18.37 C 3.355 28.612 52.939 1.00 19.31 ATOM 3255 CD1 LEU A 425 C ATOM 3259 CD2 LEU A 425 1.641 28.857 51.167 1.00 19.13 3.920 32.387 49.785 1.00 15.75 ATOM 3263 C LEU A 425 3.143 33.278 49.958 1.00 15.21 O ATOM 3264 O LEU A 425 5.195 32.600 49.518 1.00 15.73 ATOM 3265 N VALA 426 5.727 33.944 49.299 1.00 15.53  $\mathbf{C}$ ATOM 3267 CA VAL A 426 ATOM 3269 CB VAL A 426 7.229 33.908 48.979 1.00 15.20 7.749 35.282 48.813 1.00 15.09 C ATOM 3271 CG1 VAL A 426 7.992 33.187 50.059 1.00 15.76 C ATOM 3275 CG2 VAL A 426 5.053 34.578 48.106 1.00 15.52  $\mathbf{C}$ ATOM 3279 C VAL A 426 ATOM 3280 O VAL A 426 4.640 35.721 48.137 1.00 15.24 O ATOM 3281 N SER A 427 4.988 33.810 47.030 1.00 16.02 N 4.421 34.275 45.781 1.00 16.14 C ATOM 3283 CA SER A 427  $\mathbf{C}$ ATOM 3285 CB SER A 427 4.534 33.173 44.720 1.00 16.06 5.854 33.124 44.199 1.00 16.93 0 ATOM 3288 OG SER A 427 2.973 34.722 46.000 1.00 16.25  $\mathbf{C}$ ATOM 3290 C SER A 427 ATOM 3291 O SER A 427 2.595 35.800 45.561 1.00 15.92 O ATOM 3292 N LEU A 428 2.195 33.908 46.723 1.00 16.53 N 0.787 34.174 46.988 1.00 16.61 C ATOM 3294 CA LEU A 428 0.197 33.089 47.851 1.00 16.85 C ATOM 3296 CB LEU A 428 ATOM 3299 CG LEU A 428 -0.058 31.775 47.107 1.00 18.38 C ATOM 3301 CD1 LEU A 428 -0.363 30.689 48.151 1.00 18.87 С

<b>ATOM</b>	3305 CD2 LEU A 428	-1.199 31.859 46.064 1.00 18.12	C
ATOM	3309 C LEU A 428	0.523 35.476 47.685 1.00 16.85	С
ATOM	3310 O LEU A 428	-0.540 36.025 47.493 1.00 16.52	О
ATOM	3311 N ARG A 429	1.479 35.952 48.492 1.00 17.60	N
ATOM	3313 CA ARG A 429	1.358 37.220 49.219 1.00 17.77	С
ATOM	3315 CB ARG A 429		C
ATOM	3318 CG ARG A 429		C
ATOM	3321 CD ARG A 429		Č
ATOM	3324 NE ARG A 429		N
ATOM	3326 CZ ARG A 429		C
ATOM	3327 NH1 ARG A 429		N
ATOM	3330 NH2 ARG A 429	1.524 35.207 55.538 1.00 20.42	N
ATOM	3333 C ARG A 429	1.436 38.363 48.283 1.00 18.10	C
ATOM	3334 O ARG A 429	0.653 39.273 48.394 1.00 18.81	Ö
ATOM	3335 N THR A 430	2.431 38.355 47.409 1.00 18.64	N
ATOM		2.529 39.359 46.354 1.00 19.31	C
ATOM		3.808 39.129 45.519 1.00 19.46	Č
ATOM	3341 OG1 THR A 430	4.904 39.826 46.117 1.00 19.54	Ö
ATOM	3343 CG2 THR A 430	3.696 39.744 44.136 1.00 20.15	č
ATOM	3347 C THR A 430	1.282 39.310 45.455 1.00 19.59	c
ATOM	3348 O THR A 430	0.760 40.363 45.058 1.00 19.15	Ö
ATOM	3349 N LEU A 431	0.817 38.089 45.161 1.00 19.65	N
ATOM	3351 CA LEU A 431	-0.321 37.867 44.279 1.00 19.98	C
ATOM	3353 CB LEU A 431		č
ATOM	3356 CG LEU A 431		C
ATOM	3358 CD1 LEU A 431	0.233 36.774 41.638 1.00 22.08	C
ATOM	3362 CD2 LEU A 431	0.614 34.536 42.731 1.00 20.80	C
	3366 C LEU A 431	-1.620 38.425 44.847 1.00 20.42	C
ATOM		-2.438 38.944 44.096 1.00 20.94	o
ATOM		-1.805 38.323 46.164 1.00 20.27	N
ATOM	3368 N SER A 432	-2.925 38.950 46.850 1.00 19.94	C
ATOM	3370 CA SER A 432		C
ATOM	3372 CB SER A 432	-2.829 38.753 48.334 1.00 19.85	0
ATOM		-3.931 39.389 48.922 1.00 20.35	C
ATOM	3377 C SER A 432	-2.994 40.429 46.654 1.00 20.43	
ATOM	3378 O SER A 432	-4.079 40.960 46.515 1.00 20.88	O
	3379 N SER A 433	-1.842 41.103 46.699 1.00 20.85	N
ATOM	3381 CA SER A 433	-1.768 42.553 46.458 1.00 20.63	C
ATOM	3383 CB SER A 433	-0.381 43.093 46.772 1.00 20.87	C
ATOM	3386 OG SER A 433	0.018 42.700 48.074 1.00 22.56	0
ATOM	3388 C SER A 433	-2.096 42.902 45.027 1.00 20.21	C
ATOM	3389 O SER A 433	-2.773 43.883 44.790 1.00 20.71	0
ATOM	3390 N VAL A 434	-1.616 42.111 44.067 1.00 19.98	N
ATOM	3392 CA VALA 434	-1.991 42.291 42.649 1.00 19.65	C
ATOM	3394 CB VAL A 434	-1.292 41.273 41.698 1.00 19.49	С
ATOM	3396 CG1 VAL A 434	-1.831 41.389 40.295 1.00 19.50	C
ATOM	3400 CG2 VAL A 434	0.201 41.480 41.659 1.00 19.36	C
ATOM	3404 C VALA 434	-3.505 42.126 42.483 1.00 19.66	С
ATOM	3405 O VAL A 434	-4.109 42.756 41.619 1.00 19.42	O

<b>ATOM</b>	3406	N HIS A 435	-4.115 41.290 43.323 1.00 19.83	N
<b>ATOM</b>	3408	CA HIS A 435	-5.566 41.125 43.313 1.00 19.75	C
		CB HIS A 435	-6.013 39.831 44.010 1.00 19.36	C
		CG HIS A 435	-7.491 39.736 44.151 1.00 18.62	C
ATOM	3414	ND1 HIS A 435	-8.138 40.014 45.328 1.00 17.77	N
ATOM	3416	CE1 HIS A 435	-9.438 39.896 45.151 1.00 18.31	C
<b>ATOM</b>		NE2 HIS A 435	-9.659 39.574 43.893 1.00 17.98	N
ATOM			-8.456 39.478 43.244 1.00 18.86	C
ATOM	3422		-6.308 42.333 43.893 1.00 20.14	C
ATOM	3423	O HIS A 435	-7.361 42.676 43.389 1.00 19.98	0
ATOM	3424	N SER A 436	-5.775 42.969 44.939 1.00 20.92	N
ATOM	3426	CA SER A 436	-6.373 44.199 45.479 1.00 21.45	C
ATOM	3428	CB SER A 436	-5.640 44.651 46.719 1.00 21.08	С
ATOM		OG SER A 436		О
ATOM	3433	C SER A 436		C
ATOM		O SER A 436		О
ATOM	3435	N GLU A 437	-5.301 45.383 43.660 1.00 22.91	N
ATOM	3437	CA GLU A 437	-5.144 46.372 42.599 1.00 23.43	С
ATOM	3439	CB GLU A 437	-3.731 46.285 42.035 1.00 23.83	C
ATOM	3442	CG GLU A 437	-2.668 46.706 43.033 1.00 25.55	С
ATOM	3445	CD GLU A 437	-1.273 46.418 42.533 1.00 28.12	С
ATOM	3446	OE1 GLU A 437	-0.338 46.356 43.379 1.00 29.77	О
ATOM	3447	OE2 GLU A 437	-1.118 46.260 41.291 1.00 29.12	О
ATOM	3448	C GLU A 437	-6.163 46.188 41.473 1.00 23.06	С
		O GLU A 437		Ο
ATOM	3450	N GLN A 438	-6.495 44.930 41.192 1.00 22.97	N
ATOM	3452	CA GLN A 438	-7.547 44.592 40.243 1.00 22.59	С
ATOM	3454	CB GLN A 438	-7.583 43.092 39.966 1.00 22.22	C
ATOM	3457	CG GLN A 438	-8.688 42.644 39.030 1.00 21.85	С
ATOM	3460	CD GLN A 438	-8.530 43.205 37.648 1.00 21.21	С
ATOM	3461	OE1 GLN A 438	-7.916 42.573 36.787 1.00 20.42	О
ATOM	3462	NE2 GLN A 438	-9.066 44.403 37.429 1.00 20.77	N
			-8.901 45.055 40.748 1.00 22.79	C
ATOM	3466	O GLN A 438	-9.667 45.589 39.959 1.00 23.19	Ο
			-9.195 44.876 42.040 1.00 22.62	N
ATOM	3469	CA VALA 439	-10.482 45.306 42.605 1.00 23.09	С
ATOM	3471	CB VAL A 439	-10.666 44.801 44.074 1.00 22.84	С
ATOM	3473	CG1 VAL A 439	-11.891 45.422 44.727 1.00 22.88	С
ATOM	3477	CG2 VAL A 439	-10.792 43.277 44.127 1.00 22.83	С
ATOM	3481	C VAL A 439	-10.678 46.851 42.539 1.00 23.97	C
<b>ATOM</b>	3482	O VAL A 439	-11.739 47.339 42.138 1.00 24.18	0
ATOM	3483	N PHE A 440	-9.642 47.583 42.946 1.00 24.82	N
		CA PHE A 440	-9.590 49.039 42.982 1.00 25.26	С
		CB PHE A 440	-8.283 49.428 43.693 1.00 25.27	С
ATOM	3490	CG PHE A 440	-7.944 50.907 43.654 1.00 27.10	C
ATOM	3491	CD1 PHE A 440	-7.993 51.678 44.821 1.00 27.94	С
		CE1 PHE A 440	-7.655 53.041 44.798 1.00 28.61	С
ATOM	3495	CZ PHE A 440	-7.250 53.650 43.601 1.00 28.95	С

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ATOM 3497 CE2 PHE A 440
                            -7.184 52.897 42.433 1.00 28.81
                                                              \mathbf{C}
                            -7.516 51.523 42.466 1.00 28.66
ATOM 3499 CD2 PHE A 440
                                                              C
ATOM 3501 C PHE A 440
                           -9.671 49.601 41.545 1.00 25.77
                                                             C
ATOM 3502 O PHE A 440
                           -10.244 50.687 41.290 1.00 25.46
                                                             0
                           -9.113 48.839 40.605 1.00 26.29
                                                             N
ATOM 3503 N ALA A 441
                           -9.124 49.206 39.183 1.00 26.44
                                                             C
ATOM 3505 CA ALA A 441
                           -8.154 48.333 38.413 1.00 26.33
ATOM 3507 CB ALA A 441
                                                             C
                           -10.507 49.075 38.576 1.00 26.73
ATOM 3511 C ALA A 441
                                                             C
ATOM 3512 O ALA A 441
                           -10.884 49.872 37.737 1.00 26.80
                                                             0
                                                             N
ATOM 3513 N LEU A 442
                           -11.234 48.042 38.996 1.00 27.41
                           -12.581 47.757 38.515 1.00 27.87
ATOM 3515 CA LEU A 442
                                                              C
                                                              C
ATOM 3517 CB LEU A 442
                           -13.085 46.401 39.040 1.00 27.83
ATOM 3520 CG LEU A 442
                           -12.410 45.158 38.444 1.00 27.69
                                                              C
                          -12.669 43.953 39.316 1.00 27.99
ATOM 3522 CD1 LEU A 442
                                                              C
ATOM 3526 CD2 LEU A 442 -12.869 44.882 37.028 1.00 27.30
                                                              C
ATOM 3530 C LEU A 442 -13.514 48.840 38.983 1.00 28.46
                                                             С
ATOM 3531 O LEU A 442 `-14.329 49.317 38.218 1.00 28.61
                                                             0
ATOM 3532 N ARG A 443
                           -13.391 49.228 40.246 1.00 29.29
                                                             N
ATOM 3534 CA ARG A 443
                          -14.209 50.299 40.808 1.00 30.04
                                                              C
ATOM 3536 CB ARG A 443
                           -13.736 50.649 42.217 1.00 30.22
                                                              C
                           -14.192 49.662 43.274 1.00 31.52
                                                              C
ATOM 3539 CG ARG A 443
ATOM 3542 CD ARG A 443 -15.332 50.167 44.148 1.00 33.85
                                                              C
ATOM 3545 NE ARG A 443
                           -14.955 50.238 45.560 1.00 35.83
                                                              N
ATOM 3547 CZ ARG A 443 -15.607 50.929 46.500 1.00 37.07
                                                              C
ATOM 3548 NH1 ARG A 443
                           -16.700 51.632 46.203 1.00 37.49
                                                              N
ATOM 3551 NH2 ARG A 443 -15.159 50.913 47.756 1.00 37.38
                                                               N
ATOM 3554 C ARG A 443 -14.196 51.546 39.923 1.00 30.25
                                                             C
                           -15.220 52.224 39.781 1.00 29.93
ATOM 3555 O ARG A 443
                                                             O
                           -13.032 51.831 39.334 1.00 30.75
                                                             N
ATOM 3556 N LEU A 444
                           -12.860 52.956 38.392 1.00 31.09
ATOM 3558 CA LEU A 444
                                                              C
ATOM 3560 CB LEU A 444
                           -11.384 53.066 37.950 1.00 31.17
                                                              C
                           -10.487 54.098 38.648 1.00 31.22
                                                              C
ATOM 3563 CG LEU A 444
ATOM 3565 CD1 LEU A 444
                           -10.498 53.963 40.166 1.00 31.19
                                                              \mathbf{C}
                           -9.067 53.983 38.114 1.00 31.45
                                                              C
ATOM 3569 CD2 LEU A 444
ATOM 3573 C LEU A 444
                           -13.787 52.885 37.151 1.00 31.11
ATOM 3574 O LEU A 444
                           -14.194 53.923 36.611 1.00 31.11
                                                             0
ATOM 3575 N GLN A 445
                           -14.092 51.662 36.709 1.00 31.11
                                                             N
ATOM 3577 CA GLN A 445
                           -15.074 51.394 35.648 1.00 31.21
                                                              \mathbf{C}
                           -14.598 50.220 34.787 1.00 31.41
                                                              \mathbf{C}
ATOM 3579 CB GLN A 445
                           -13.132 50.239 34.392 1.00 32.12
                                                              \mathbf{C}
ATOM 3582 CG GLN A 445
                           -12.865 49.300 33.233 1.00 33.14
                                                              C
ATOM 3585 CD GLN A 445
                           -12.702 48.082 33.447 1.00 32.74
ATOM 3586 OE1 GLN A 445
                                                              0
ATOM 3587 NE2 GLN A 445 -12.866 49.847 31.994 1.00 32.19
                                                              N
ATOM 3590 C GLN A 445 -16.465 51.032 36.204 1.00 31.07
                                                             C
                           -17.130 50.134 35.674 1.00 31.04
ATOM 3591 O GLN A 445
                                                             0
                           -16.901 51.742 37.250 1.00 30.89
                                                             N
ATOM 3592 N ASP A 446
                           -18.107 51.412 38.047 1.00 30.55
ATOM 3594 CA ASP A 446
                                                             C
ATOM 3596 CB ASP A 446 -19.350 52.244 37.606 1.00 30.66
                                                             C
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ATOM		-19.798 51.973 36.150 1.00 31.69	C
ATOM	3600 OD1 ASP A 446		О
ATOM	3601 OD2 ASP A 446	-19.981 50.822 35.695 1.00 32.98	О
ATOM	3602 C ASP A 446	-18.421 49.913 38.134 1.00 29.91	С
ATOM	3603 O ASP A 446	-19.580 49.514 38.041 1.00 30.02	О
ATOM	3604 N LYS A 447	-17.386 49.095 38.336 1.00 29.01	N
ATOM	3606 CA LYS A 447	-17.536 47.638 38.442 1.00 28.56	C
ATOM	3608 CB LYS A 447	-16.598 46.911 37.463 1.00 28.67	C
ATOM	3611 CG LYS A 447		С
ATOM	3614 CD LYS A 447		C
ATOM	3617 CE LYS A 447		С
ATOM	3620 NZ LYS A 447	-16.241 45.320 32.835 1.00 31.49	N
ATOM	3624 C LYS A 447	-17.265 47.168 39.878 1.00 27.76	C
ATOM	3625 O LYS A 447	-16.191 46.639 40.168 1.00 27.90	0
ATOM	3626 N LYS A 448	-18.263 47.349 40.749 1.00 26.87	N
ATOM	3628 CA LYS A 448	-18.170 47.078 42.194 1.00 26.07	C
ATOM	3630 CB LYS A 448		C
ATOM	3633 CG LYS A 448		C
ATOM	3636 CD LYS A 448		C
ATOM	3639 CE LYS A 448		C
ATOM		-21.696 52.017 44.266 1.00 27.68	N
ATOM	3646 C LYS A 448	-18.460 45.613 42.581 1.00 25.00	C
ATOM	3647 O LYS A 448	-19.382 44.978 42.065 1.00 24.64	0
ATOM	3648 N LEU A 449		N
ATOM	3650 CA LEU A 449		C
ATOM	3652 CB LEU A 449		C
ATOM	3655 CG LEU A 449	-15.452 43.316 44.788 1.00 22.84	C
ATOM	3657 CD1 LEU A 449		C
ATOM	3661 CD2 LEU A 449		C
ATOM	3665 C LEU A 449	-19.342 43.712 44.746 1.00 22.85	C
ATOM	3666 O LEU A 449		0
ATOM	3667 N PRO A 450		N
ATOM	3668 CA PRO A 450		C
ATOM		-21.803 41.047 44.666 1.00 22.22	C
	3673 CG PRO A 450	-20.637 40.367 44.087 1.00 21.90	C
	3676 CD PRO A 450	-19.674 41.443 43.702 1.00 22.32	С
	3679 C PRO A 450	-20.978 42.057 46.844 1.00 21.92	С
	3680 O PRO A 450	-19.844 41.845 47.289 1.00 21.27	0
ATOM		-22.050 42.075 47.622 1.00 21.60	N
	3682 CA PRO A 451	-21.931 42.136 49.075 1.00 21.42	C
	3684 CB PRO A 451	-23.368 41.933 49.537 1.00 21.48	C
	3687 CG PRO A 451	-24.173 42.511 48.422 1.00 21.66	C
	3690 CD PRO A 451	-23.460 42.050 47.195 1.00 21.52	C
	3693 C PRO A 451	-21.033 41.081 49.665 1.00 21.33	C
	3694 O PRO A 451	-20.235 41.434 50.504 1.00 21.87	0
	3695 N LEU A 452	-21.154 39.826 49.239 1.00 21.12	N
	3697 CA LEU A 452	-20.446 38.723 49.896 1.00 20.62	C
ATOM	3699 CB LEU A 452	-20.979 37.379 49.408 1.00 20.09	С

ATOM	3702 CG LEU A 452 -22.431 37.092 49.784 1.00 20.73	С
	3704 CD1 LEU A 452 -22.785 35.714 49.301 1.00 21.49	С
ATOM	3708 CD2 LEU A 452 -22.716 37.186 51.287 1.00 20.70	С
ATOM	3712 C LEU A 452 -18.931 38.801 49.717 1.00 20.65	C
ATOM	3713 O LEU A 452 -18.167 38.384 50.601 1.00 21.01	O
ATOM	3714 N LEU A 453 -18.514 39.333 48.571 1.00 20.44	N
ATOM	3716 CA LEU A 453 -17.120 39.567 48.284 1.00 20.21	C
	3718 CB LEU A 453 -16.874 39.494 46.771 1.00 19.94	Č
ATOM		Č
	3723 CD1 LEU A 453 -16.851 38.295 44.560 1.00 17.21	C
ATOM	3727 CD2 LEU A 453 -16.565 37.017 46.679 1.00 18.51	Č
ATOM	3731 C LEU A 453 -16.653 40.926 48.827 1.00 20.82	C
ATOM	3732 O LEU A 453 -15.474 41.090 49.107 1.00 20.92	Ö
	3733 N SER A 454 -17.549 41.900 48.981 1.00 21.37	N
	3735 CA SER A 454 -17.140 43.210 49.503 1.00 21.77	C
	3737 CB SER A 454 -18.195 44.314 49.255 1.00 21.86	Č
	3740 OG SER A 454 -17.652 45.370 48.461 1.00 20.15	Ö
	3742 C SER A 454 -16.764 43.123 50.982 1.00 22.46	C
ATOM	3743 O SER A 454 -15.807 43.761 51.400 1.00 21.96	Ö
ATOM	3744 N GLU A 455 -17.479 42.312 51.757 1.00 23.59	N
ATOM	3746 CA GLU A 455 -17.096 42.049 53.141 1.00 25.53	C
ATOM	3748 CB GLU A 455 -17.878 40.852 53.690 1.00 25.84	C
ATOM	3751 CG GLU A 455 -19.276 41.185 54.208 1.00 28.77	C
ATOM	3754 CD GLU A 455 -20.256 39.994 54.195 1.00 31.25	C
ATOM	3755 OE1 GLU A 455 -21.394 40.150 54.700 1.00 31.67	0
ATOM	3756 OE2 GLU A 455 -19.905 38.907 53.671 1.00 33.40	O
ATOM	3757 C GLU A 455 -15.572 41.767 53.264 1.00 26.68	С
ATOM	3758 O GLU A 455 -14.908 42.249 54.198 1.00 27.07	O
ATOM	3759 N ILE A 456 -15.033 41.007 52.298 1.00 27.38	N
ATOM	3761 CA ILE A 456 -13.678 40.479 52.359 1.00 27.66	С
ATOM	3763 CB ILE A 456 -13.569 39.091 51.642 1.00 27.97	C
	3765 CG1 ILE A 456 -14.852 38.268 51.657 1.00 27.83	C
	3768 CD1 ILE A 456 -14.735 37.002 50.750 1.00 28.22	С
ATOM	3772 CG2 ILE A 456 -12.479 38.256 52.267 1.00 28.27	C
ATOM	3776 C ILE A 456 -12.617 41.407 51.744 1.00 27.81	C
	3777 O ILE A 456 -11.530 41.525 52.294 1.00 27.84	O
ATOM	3778 N TRP A 457 -12.916 42.059 50.619 1.00 28.14	N
	3780 CA TRP A 457 -11.868 42.665 49.790 1.00 28.27	С
	3782 CB TRP A 457 -11.835 41.959 48.438 1.00 27.80	С
	3785 CG TRP A 457 -11.435 40.531 48.478 1.00 26.47	С
	3786 CD1 TRP A 457 -10.558 39.953 49.332 1.00 27.09	C
	3788 NE1 TRP A 457 -10.425 38.613 49.055 1.00 25.93	N
	3790 CE2 TRP A 457 -11.230 38.300 47.999 1.00 24.67	С
	3791 CD2 TRP A 457 -11.882 39.486 47.609 1.00 25.03	C
	3792 CE3 TRP A 457 -12.766 39.430 46.534 1.00 24.74	C
	3794 CZ3 TRP A 457 -12.973 38.214 45.906 1.00 24.55	C
	3796 CH2 TRP A 457 -12.305 37.059 46.315 1.00 23.20	С
ATOM	3798 CZ2 TRP A 457 -11.438 37.079 47.361 1.00 23.28	C

			_
ATOM 3800 C		-11.866 44.207 49.556 1.00 29.43	C
	TRP A 457		O
	N ASP A 458	-12.832 44.991 50.016 1.00 30.20	N
		-12.664 46.443 49.817 1.00 31.40	C
		-13.193 46.934 48.434 1.00 31.63	C
		-14.687 46.637 48.197 1.00 31.97	C
		-15.402 46.153 49.106 1.00 32.78	0
		-15.234 46.859 47.099 1.00 32.00	O
	C ASP A 458	-13.209 47.291 50.953 1.00 32.10	C
	O ASP A 458		0
		-12.903 32.520 41.908 1.00 38.73	O
ATOM 3815 S			S
ATOM 3816 C		-11.233 30.945 41.500 1.00 38.80	0
ATOM 3817 (		-12.307 32.240 39.501 1.00 35.82	C
ATOM 3818 C		-11.762 31.312 38.546 1.00 36.26	C
	C03 444 A 500	-12.224 31.300 37.209 1.00 35.69	C
	C04 444 A 500	-13.224 32.213 36.827 1.00 36.31	C
	C05 444 A 500	-13.749 33.139 37.783 1.00 36.97	C
	C06 444 A 500	-13.296 33.164 39.129 1.00 35.39	C
	N15 444 A 500	-10.433 33.536 41.205 1.00 29.97	N
		-9.292 33.272 40.226 1.00 28.97	C
_	C19 444 A 500	-7.983 33.620 40.842 1.00 29.01	C
ATOM 3833 F	F22 444 A 500	-7.029 33.116 40.045 1.00 29.49	F
-	F21 444 A 500	-7.818 33.167 42.091 1.00 28.48	F
ATOM 3835 F		-7.832 34.923 40.956 1.00 30.58	F
ATOM 3836 C	C23 444 A 500	-10.835 34.982 41.185 1.00 24.01	C
ATOM 3837 C	C24 444 A 500	-10.965 35.672 42.397 1.00 22.07	C
ATOM 3839 C	C25 444 A 500	-11.379 37.020 42.458 1.00 19.90	C
ATOM 3841 (	C28 444 A 500	-11.160 35.725 40.000 1.00 21.92	С
ATOM 3843 C	C27 444 A 500	-11.581 37.074 40.053 1.00 19.73	С
ATOM 3845 C	C26 444 A 500	-11.693 37.779 41.289 1.00 17.65	C
ATOM 3846 (	C33 444 A 500	-12.190 39.247 41.480 1.00 16.46	C
ATOM 3847 (	C34 444 A 500	-11.551 40.241 40.502 1.00 16.76	С
ATOM 3848 F	F36 444 A 500	-11.967 41.510 40.769 1.00 16.31	F
ATOM 3849 F	F37 444 A 500	-10.218 40.150 40.593 1.00 17.90	F
ATOM 3850 F	F35 444 A 500	-11.819 39.974 39.215 1.00 17.74	F
ATOM 3851 C	O42 444 A 500	-11.993 39.783 42.823 1.00 14.95	О
ATOM 3853 (	C38 444 A 500	-13.728 39.235 41.163 1.00 17.17	С
ATOM 3854 F	F39 444 A 500	-14.006 38.764 39.913 1.00 16.84	F
ATOM 3855 F	F40 444 A 500	-14.373 38.394 42.018 1.00 16.20	F
ATOM 3856 F	F41 444 A 500	-14.397 40.411 41.232 1.00 16.25	F
ATOM 3857 N	N ALA B 219	28.704 17.672 55.232 1.00 24.68	N
ATOM 3859 C	CA ALA B 219	29.588 18.889 55.338 1.00 24.58	C
ATOM 3861 C	CB ALA B 219	31.057 18.475 55.521 1.00 24.07	C
ATOM 3865 C	C ALA B 219	29.402 19.870 54.131 1.00 24.15	C
ATOM 3866 C	O ALA B 219	29.068 19.449 53.011 1.00 24.62	Ο
ATOM 3869 N	N LEU B 220	29.571 21.174 54.377 1.00 23.16	N
ATOM 3871 C	CA LEU B 220	29.472 22.199 53.328 1.00 21.99	C

ATOM	3873	CB LEUB 220	29.618 23.615 53.917 1.00 22.09	С
ATOM		CG LEU B 220		С
ATOM		CD1 LEU B 220	28.806 25.618 55.244 1.00 22.67	С
ATOM	-	CD2 LEU B 220	27.274 24.393 53.735 1.00 23.37	C
ATOM	3886		30.574 21.976 52.321 1.00 20.67	C
ATOM	3887		31.672 21.583 52.686 1.00 20.63	Ō
ATOM	3888		30.290 22.225 51.056 1.00 19.37	N
ATOM		CA THR B 221		C
ATOM		CB THR B 221		Č
ATOM		OG1 THR B 221	29.876 23.146 48.391 1.00 18.73	O
ATOM		CG2 THR B 221	29.728 20.812 48.623 1.00 18.50	č
ATOM		C THR B 221	32.188 23.387 50.055 1.00 17.40	C
ATOM	3901		31.846 24.361 50.699 1.00 16.71	Ö
ATOM	3902		33.316 23.363 49.370 1.00 16.94	N
ATOM			34.154 24.554 49.299 1.00 17.09	C
ATOM			35.444 24.268 48.587 1.00 16.86	Č
		C ALA B 222		C
ATOM			33.418 26.821 49.053 1.00 17.54	Ö
ATOM ATOM		N ALA B 223	32.686 25.375 47.528 1.00 17.06	N
ATOM			31.927 26.389 46.822 1.00 17.33	C
			31.190 25.781 45.660 1.00 17.42	C
ATOM		CB ALA B 223	30.956 27.083 47.762 1.00 17.63	C
ATOM				o
ATOM	3921		30.290 26.292 48.594 1.00 18.35	N
ATOM	3922	CA GLN B 224	29.242 26.776 49.504 1.00 18.65	C
ATOM		CB GLN B 224	28.462 25.594 50.120 1.00 18.47	C
ATOM			27.469 24.947 49.161 1.00 18.73	C
ATOM		CG GLN B 224	26.721 23.757 49.765 1.00 18.05	C
ATOM		CD GLN B 224	27.221 23.088 50.658 1.00 18.57	0
ATOM		OE1 GLN B 224	25.523 23.509 49.278 1.00 15.43	N
ATOM		NE2 GLN B 224	29.815 27.643 50.613 1.00 18.94	C
ATOM	3937		29.189 28.628 51.022 1.00 18.39	Ö
ATOM	3938		30.991 27.260 51.108 1.00 19.45	N
ATOM		N GLU B 225 CA GLU B 225	31.637 28.043 52.135 1.00 20.29	C
ATOM ATOM		CB GLU B 225	32.820 27.331 52.758 1.00 20.53	C
		CG GLU B 225	32.388 26.464 53.917 1.00 22.48	C
ATOM ATOM		CD GLU B 225	33.538 25.795 54.602 1.00 23.89	C
		OE1 GLU B 225	34.681 26.120 54.235 1.00 24.51	O
ATOM		OE2 GLU B 225	33.285 24.955 55.503 1.00 26.73	o
ATOM ATOM		C GLU B 225	32.088 29.334 51.537 1.00 20.43	c
ATOM	3953		31.942 30.365 52.163 1.00 20.91	Ö
		N LEU B 226	32.610 29.285 50.323 1.00 20.47	N
ATOM ATOM		CA LEU B 226	33.125 30.479 49.703 1.00 20.90	C
		CB LEU B 226	33.872 30.139 48.413 1.00 21.31	Č
ATOM ATOM		CG LEU B 226	34.698 31.259 47.755 1.00 21.27	C
ATOM		CD1 LEU B 226	35.609 31.969 48.733 1.00 21.43	C
ATOM		CD1 LEU B 226	35.505 30.650 46.674 1.00 21.43	C
ATOM		C LEU B 226	31.997 31.465 49.427 1.00 21.31	c
W I OIM	2711	C LEO B 220	J1.77/ J1.TUJ TJ.74/ 1.UU 41.J1	$\overline{\mathbf{c}}$

ATOM	3972 O LEUB 226 3	2.160 32.670 49.647 1.00 21.15	0
<b>ATOM</b>	3973 N MET B 227	30.849 30.956 48.985 1.00 21.73	N
ATOM		29.714 31.813 48.664 1.00 22.09	C
ATOM	3977 CB MET B 227	28.634 31.054 47.892 1.00 22.54	C
ATOM	3980 CG MET B 227	27.269 30.909 48.549 1.00 23.79	C
ATOM	3983 SD MET B 227	26.142 29.773 47.621 1.00 27.96	S
<b>ATOM</b>	3984 CE MET B 227	27.188 28.736 46.570 1.00 27.48	C
ATOM	3988 C MET B 227 2	29.172 32.474 49.912 1.00 22.21	С
<b>ATOM</b>	3989 O MET B 227 2	28.708 33.588 49.833 1.00 22.95	Ο
ATOM	3990 N ILE B 228 29	0.266 31.823 51.068 1.00 22.34	N
ATOM		8.910 32.476 52.333 1.00 22.29	С
ATOM		8.737 31.450 53.511 1.00 22.56	C
<b>ATOM</b>	3996 CG1 ILE B 228	27.588 30.472 53.242 1.00 23.49	С
ATOM	3999 CD1 ILE B 228	27.627 29.236 54.122 1.00 23.22	С
ATOM	4003 CG2 ILE B 228	28.437 32.169 54.846 1.00 22.22	C
<b>ATOM</b>	4007 C ILE B 228 29	0.960 33.531 52.699 1.00 21.82	C
ATOM	4008 O ILE B 228 29	0.614 34.617 53.154 1.00 21.47	Ο
ATOM	4009 N GLN B 229 3	31.238 33.211 52.521 1.00 21.59	N
ATOM		32.324 34.134 52.913 1.00 21.52	, C
ATOM	4013 CB GLN B 229	33.685 33.452 52.905 1.00 21.14	C
ATOM	4016 CG GLN B 229	33.892 32.331 53.874 1.00 21.05	C
ATOM	4019 CD GLN B 229	35.306 31.720 53.750 1.00 22.52	C
ATOM	4020 OE1 GLN B 229	36.108 32.126 52.906 1.00 23.55	О
<b>ATOM</b>	4021 NE2 GLN B 229	35.607 30.755 54.605 1.00 23.97	N
ATOM	4024 C GLN B 229 3	2.362 35.373 51.986 1.00 21.62	C
<b>ATOM</b>	4025 O GLN B 229 3	32.573 36.499 52.457 1.00 20.86	O
<b>ATOM</b>	4026 N GLN B 230 3	32.153 35.142 50.684 1.00 21.69	N
ATOM		31.980 36.219 49.695 1.00 22.27	С
ATOM	4030 CB GLN B 230	31.551 35.671 48.304 1.00 22.97	С
ATOM	4033 CG GLN B 230	32.497 35.982 47.154 1.00 25.55	C
ATOM		32.631 34.843 46.076 1.00 29.62	С
ATOM	4037 OE1 GLN B 230	31.764 33.960 45.941 1.00 30.03	О
		33.734 34.895 45.308 1.00 31.02	N
		0.910 37.187 50.183 1.00 21.84	С
ATOM		31.139 38.390 50.202 1.00 21.52	О
ATOM	4043 N LEUB 231 2	9.742 36.648 50.550 1.00 21.50	N
ATOM		28.599 37.461 50.943 1.00 21.25	C
ATOM	4047 CB LEUB 231	27.354 36.589 51.108 1.00 20.78	С
ATOM	4050 CG LEUB 231	26.673 36.046 49.837 1.00 20.15	С
<b>ATOM</b>	4052 CD1 LEU B 231	25.392 35.295 50.237 1.00 19.85	C
ATOM	4056 CD2 LEU B 231	26.335 37.096 48.808 1.00 19.23	C
ATOM		8.865 38.252 52.232 1.00 21.94	C
		8.598 39.448 52.300 1.00 21.80	О
		29.426 37.585 53.235 1.00 22.76	N
		29.628 38.171 54.549 1.00 23.21	C
		30.141 37.090 55.513 1.00 23.16	С
		30.761 37.688 56.793 1.00 22.84	С
ATOM	4072 CG2 VAL B 232	29.026 36.110 55.844 1.00 22.95	C

ATOM	4076 C VAL B 232	30.630 39.320 54.456 1.00 24.43	С
ATOM	4077 O VAL B 232	30.505 40.316 55.165 1.00 25.28	Ο
ATOM	4078 N ALA B 233	31.619 39.159 53.572 1.00 25.43	N
ATOM	4080 CA ALA B 233	32.706 40.125 53.343 1.00 26.13	C
ATOM	4082 CB ALA B 233	33.869 39.411 52.651 1.00 26.16	С
ATOM	4086 C ALA B 233	32.307 41.346 52.502 1.00 27.05	C
ATOM	4087 O ALA B 233	32.789 42.446 52.732 1.00 27.17	Ο
<b>ATOM</b>	4088 N ALA B 234	31.490 41.118 51.482 1.00 28.25	N
<b>ATOM</b>	4090 CA ALA B 234	30.831 42.176 50.727 1.00 29.27	C
<b>ATOM</b>	4092 CB ALA B 234	29.965 41.558 49.621 1.00 29.31	C
<b>ATOM</b>	4096 C ALA B 234	29.958 43.004 51.655 1.00 30.40	С
<b>ATOM</b>	4097 O ALA B 234	29.882 44.210 51.552 1.00 29.95	О
<b>ATOM</b>	4098 N GLN B 235	29.294 42.316 52.566 1.00 32.57	N
<b>ATOM</b>	4100 CA GLN B 235	28.399 42.928 53.543 1.00 34.38	C
ATOM	4102 CB GLN B 235	27.829 41.824 54.441 1.00 34.81	С
ATOM	4105 CG GLN B 235	26.865 42.286 55.484 1.00 37.75	С
ATOM	4108 CD GLN B 235	25.566 41.484 55.460 1.00 41.27	С
ATOM	4109 OE1 GLN B 235	25.504 40.371 56.026 1.00 42.65	О
<b>ATOM</b>	4110 NE2 GLN B 235	24.525 42.046 54.814 1.00 41.12	N
ATOM	4113 C GLN B 235	29.145 43.957 54.375 1.00 34.95	. <b>C</b>
ATOM	4114 O GLN B 235	28.613 45.011 54.675 1.00 34.65	О
ATOM	4115 N LEUB 236	30.389 43.615 54.715 1.00 36.32	N
ATOM	4117 CA LEU B 236	31.262 44.414 55.564 1.00 37.34	С
ATOM	4119 CB LEU B 236	32.433 43.559 56.017 1.00 37.63	С
ATOM	4122 CG LEU B 236	32.509 43.208 57.493 1.00 38.70	C
ATOM	4124 CD1 LEU B 236	31.604 41.997 57.824 1.00 39.79	C
ATOM	4128 CD2 LEU B 236	33.960 42.926 57.797 1.00 38.57	C
ATOM	4132 C LEU B 236	31.815 45.657 54.869 1.00 38.08	C
ATOM	4133 O LEUB 236	31.855 46.726 55.461 1.00 37.92	О
ATOM	4134 N GLN B 237	32.262 45.493 53.626 1.00 39.36	N
	4136 CA GLN B 237	32.746 46.598 52.797 1.00 40.70	C
ATOM	4138 CB GLN B 237	33.415 46.058 51.524 1.00 40.83	С
	4141 CG GLN B 237	34.532 46.964 50.971 1.00 41.60	C
ATOM	4144 CD GLN B 237	34.992 46.534 49.591 1.00 42.42	C
ATOM	4145 OE1 GLN B 237	34.170 46.108 48.764 1.00 42.22	O
ATOM	4146 NE2 GLN B 237	36.308 46.630 49.337 1.00 42.50	N
ATOM	4149 C GLN B 237	31.632 47.602 52.424 1.00 41.89	C
<b>ATOM</b>	4150 O GLN B 237	31.882 48.807 52.305 1.00 41.99	Ο
ATOM	4151 N CYS B 238	30.413 47.104 52.241 1.00 43.32	N
ATOM	4153 CA CYS B 238	29.246 47.954 52.013 1.00 44.73	С
ATOM	4155 CB CYS B 238	28.069 47.119 51.513 1.00 44.86	C
ATOM	4158 SG CYS B 238	28.396 46.553 49.839 1.00 46.85	S
ATOM	4159 C CYS B 238	28.835 48.702 53.267 1.00 45.60	C
ATOM	4160 O CYS B 238	28.345 49.828 53.170 1.00 46.06	О
ATOM	4161 N ASN B 239	29.045 48.079 54.429 1.00 46.60	N
	4163 CA ASN B 239	28.756 48.692 55.732 1.00 47.74	С
ATOM	4165 CB ASN B 239	28.707 47.600 56.824 1.00 47.61	С
ATOM	4168 CG ASN B 239	28.145 48.099 58.160 1.00 48.06	С

<b>ATOM</b>	4169	OD1 ASN B 239	26.976 47.868 58.480 1.00 49.54	Ο
<b>ATOM</b>	4170	ND2 ASN B 239		N
ATOM	4173	C ASN B 239	29.743 49.820 56.132 1.00 48.99	С
ATOM	4174	O ASN B 239	29.520 50.493 57.140 1.00 49.79	О
ATOM	4175	N LYS B 240	30.828 50.030 55.377 1.00 50.23	N
ATOM	4177	CA LYS B 240	31.737 51.171 55.618 1.00 51.04	С
ATOM	4179	CB LYS B 240	33.089 50.963 54.917 1.00 51.14	C
ATOM	4182	CG LYS B 240	33.873 49.716 55.368 1.00 51.19	C
ATOM	4185	CD LYS B 240	34.958 49.321 54.340 1.00 51.44	C
ATOM	4188	CE LYS B 240	35.658 48.003 54.703 1.00 51.36	C
<b>ATOM</b>	4191	NZ LYS B 240	37.081 48.229 55.115 1.00 51.87	N
<b>ATOM</b>	4195	C LYS B 240	31.098 52.504 55.168 1.00 51.98	С
<b>ATOM</b>	4196	O LYS B 240	31.449 53.570 55.684 1.00 51.78	О
<b>ATOM</b>	4197	N ARG B 241	30.184 52.424 54.192 1.00 53.10	N
<b>ATOM</b>	4199	CA ARG B 241	29.218 53.500 53.891 1.00 54.14	C
ATOM	4201	CB ARG B 241		С
ATOM	4204	CG ARG B 241	27.434 54.178 52.132 1.00 55.90	C
ATOM	4207	CD ARG B 241	28.245 54.961 51.073 1.00 57.98	C
ATOM	4210	NE ARG B 241	27.427 55.921 50.318 1.00 59.30	N
ATOM	4212	CZ ARG B 241	27.611 57.250 50.276 1.00 60.60	C
<b>ATOM</b>	4213	NH1 ARG B 241	28.598 57.855 50.950 1.00 60.35	N
<b>ATOM</b>	4216	NH2 ARG B 241	26.784 57.993 49.545 1.00 61.55	N
<b>ATOM</b>	4219	C ARG B 241	28.423 53.954 55.135 1.00 54.58	С
<b>ATOM</b>	4220	O ARG B 241	28.148 55.141 55.293 1.00 54.62	Ο
<b>ATOM</b>	4221	N SER B 242	28.051 52.997 55.996 1.00 55.06	N
<b>ATOM</b>	4223	CA SER B 242	27.372 53.273 57.277 1.00 55.17	C
ATOM	4225	CB SER B 242	26.892 51.980 57.957 1.00 55.30	C
<b>ATOM</b>	4228	OG SER B 242	25.473 51.941 58.068 1.00 56.31	O
<b>ATOM</b>	4230	C SER B 242	28.211 54.049 58.288 1.00 55.24	С
<b>ATOM</b>	4231	O SER B 242	27.705 54.999 58.884 1.00 55.71	O
<b>ATOM</b>	4232	N PHE B 243	29.463 53.655 58.521 1.00 55.12	N
<b>ATOM</b>	4234	CA PHE B 243	30.259 54.359 59.534 1.00 55.08	C
<b>ATOM</b>	4236	CB PHE B 243	31.418 53.497 60.052 1.00 55.12	C
<b>ATOM</b>	4239	CG PHE B 243	31.996 53.987 61.364 1.00 56.27	С
<b>ATOM</b>	4240	CD1 PHE B 243	31.181 54.146 62.493 1.00 57.56	С
ATOM	4242	CE1 PHE B 243	31.719 54.624 63.733 1.00 57.97	С
ATOM	4244	CZ PHE B 243	33.083 54.941 63.831 1.00 57.54	С
ATOM	4246	CE2 PHE B 243	33.905 54.785 62.705 1.00 57.44	С
ATOM	4248	CD2 PHE B 243	33.356 54.313 61.473 1.00 57.17	С
ATOM	4250	C PHE B 243	30.746 55.749 59.061 1.00 54.73	С
ATOM	4251	O PHE B 243	30.825 56.679 59.865 1.00 55.07	О
ATOM	4252	N SER B 244	31.027 55.904 57.767 1.00 54.22	N
ATOM		CA SER B 244	31.487 57.191 57.211 1.00 53.75	С
ATOM	4256	CB SER B 244	32.064 57.008 55.793 1.00 53.77	C
		OG SER B 244	31.290 57.702 54.822 1.00 53.38	O
		C SER B 244	30.385 58.262 57.176 1.00 53.38	С
ATOM	4262	O SER B 244	30.627 59.418 57.535 1.00 53.00	0
ATOM	4263	N ASP B 245	29.188 57.855 56.732 1.00 53.11	N

ATOM	4265 CA ASP B 245	28.019 58.748 56.567 1.00 52.82	С
ATOM	4267 CB ASP B 245	27.074 58.230 55.443 1.00 52.94	С
ATOM	4270 CG ASP B 245		С
ATOM	4271 OD1 ASP B 245	28.098 59.587 53.682 1.00 55.16	Ο
ATOM	4272 OD2 ASP B 245	27.548 57.610 53.105 1.00 52.73	0
ATOM	4273 C ASP B 245	27.179 58.946 57.855 1.00 52.05	C
ATOM	4274 O ASP B 245	26.117 59.572 57.805 1.00 52.02	Ο
ATOM	4275 N GLN B 246	27.652 58.422 58.988 1.00 51.15	N
ATOM	4277 CA GLN B 246	26.926 58.504 60.267 1.00 50.54	С
ATOM	4279 CB GLN B 246	27.492 57.455 61.269 1.00 50.73	С
ATOM	4282 CG GLN B 246	27.233 57.722 62.765 1.00 51.69	С
ATOM		27.645 56.547 63.672 1.00 53.24	C
ATOM	4286 OE1 GLN B 246	28.817 56.436 64.073 1.00 54.34	О
ATOM	4287 NE2 GLN B 246	26.679 55.685 64.010 1.00 53.27	N
ATOM	4290 C GLN B 246	26.862 59.957 60.851 1.00 49.48	С
ATOM	4291 O GLN B 246	25.763 60.470 61.101 1.00 49.52	О
ATOM	4292 N PRO B 247	28.000 60.615 61.094 1.00 47.95	N
ATOM	4293 CA PRO B 247	27.991 62.064 61.394 1.00 46.90	С
ATOM	4295 CB PRO B 247	29.467 62.362 61.741 1.00 47.00	С
ATOM	4298 CG PRO B 247	30.042 61.036 62.140 1.00 47.48	C
ATOM	4301 CD PRO B 247	29.359 60.046 61.223 1.00 47.92	C
ATOM	4304 C PRO B 247		C
ATOM	4305 O PROB 247	27.150 64.182 60.635 1.00 45.34	О
<b>ATOM</b>	4306 N LYS B 248	27.396 62.644 59.032 1.00 43.94	N
ATOM	4308 CA LYS B 248	26.860 63.543 57.990 1.00 42.75	С
ATOM	4310 CB LYS B 248	27.141 62.964 56.593 1.00 43.13	C
<b>ATOM</b>	4313 CG LYS B 248	28.639 62.768 56.264 1.00 44.00	С
ATOM	4316 CD LYS B 248	28.852 62.542 54.752 1.00 44.70	С
<b>ATOM</b>	4319 CE LYS B 248		C
ATOM	4322 NZ LYS B 248	30.151 61.296 53.010 1.00 44.31	N
<b>ATOM</b>	4326 C LYS B 248	25.340 63.827 58.140 1.00 40.90	C
ATOM	4327 O LYS B 248	24.845 64.869 57.686 1.00 40.99	O
<b>ATOM</b>	4328 N VALB 249	24.636 62.901 58.797 1.00 38.30	N
<b>ATOM</b>	4330 CA VAL B 249	23.173 62.868 58.906 1.00 36.28	C
<b>ATOM</b>	4332 CB VAL B 249	22.743 61.474 59.484 1.00 36.31	C
ATOM	4334 CG1 VAL B 249	21.274 61.419 59.906 1.00 36.23	C
	4338 CG2 VAL B 249	23.031 60.379 58.478 1.00 36.31	С
ATOM	4342 C VALB 249	22.576 63.984 59.767 1.00 34.54	С
ATOM	4343 O VAL B 249	23.245 64.523 60.642 1.00 34.40	О
ATOM	4344 N THR B 250	21.311 64.318 59.495 1.00 32.57	N
	4346 CA THR B 250	20.513 65.209 60.341 1.00 31.14	С
	4348 CB THR B 250	19.124 65.442 59.743 1.00 31.02	С
	4350 OG1 THR B 250		О
	4352 CG2 THR B 250	18.310 66.419 60.602 1.00 31.00	С
ATOM	4356 C THR B 250	20.326 64.594 61.720 1.00 29.95	С
	4357 O THR B 250	19.559 63.644 61.896 1.00 29.50	О
	4358 N PRO B 251	20.989 65.144 62.720 1.00 28.66	N
ATOM	4359 CA PRO B 251	20.950 64.526 64.051 1.00 27.87	С

ATOM	4361 CB PRO B 251	21.874 65.426 64.886 1.00 27.94	С
ATOM	4364 CG PRO B 251	22.682 66.181 63.888 1.00 28.33	С
ATOM	4367 CD PRO B 251	21.791 66.380 62.703 1.00 28.63	С
<b>ATOM</b>	4370 C PROB 251	19.522 64.463 64.632 1.00 26.71	С
<b>ATOM</b>	4371 O PROB 251	18.680 65.312 64.335 1.00 26.64	0
<b>ATOM</b>	4372 N TRP B 252	19.263 63.438 65.437 1.00 25.29	, N
ATOM	4374 CA TRP B 252	17.951 63.234 66.046 1.00 23.97	C
<b>ATOM</b>	4376 CB TRP B 252	17.937 61.878 66.763 1.00 23.92	С
ATOM	4379 CG TRP B 252	16.605 61.421 67.350 1.00 22.64	C
ATOM	4380 CD1 TRP B 252	16.189 61.540 68.656 1.00 21.21	C
ATOM	4382 NE1 TRP B 252	14.938 60.987 68.802 1.00 20.46	N
ATOM	4384 CE2 TRP B 252	14.520 60.492 67.595 1.00 18.51	C
ATOM	4385 CD2 TRP B 252	15.550 60.747 66.655 1.00 19.31	С
<b>ATOM</b>	4386 CE3 TRP B 252	15.353 60.364 65.323 1.00 17.21	С
	4388 CZ3 TRP B 252		С
ATOM	4390 CH2 TRP B 252	13.156 59.497 65.934 1.00 16.41	С
ATOM	4392 CZ2 TRP B 252	13.310 59.868 67.243 1.00 17.52	C
ATOM	4394 C TRP B 252	17.730 64.380 67.013 1.00 22.87	C
ATOM	4395 O TRP B 252	18.638 64.692 67.751 1.00 22.53	О
ATOM	4396 N PROB 253	16.565 65.033 66.983 1.00 22.23	N
ATOM	4397 CA PRO B 253	16.339 66.235 67.787 1.00 22.20	C
ATOM	4399 CB PRO B 253	15.033 66.803 67.198 1.00 21.68	C
ATOM	4402 CG PRO B 253	14.333 65.675 66.691 1.00 21.51	С
ATOM	4405 CD PRO B 253	15.376 64.726 66.170 1.00 22.10	С
ATOM	4408 C PROB 253	16.217 66.014 69.315 1.00 22.42	C
ATOM	4409 O PROB 253	15.242 65.429 69.778 1.00 22.73	O
ATOM	4410 N LEUB 254	17.195 66.511 70.065 1.00 22.50	N
ATOM	4412 CA LEUB 254		С
ATOM	4414 CB LEU B 254		С
ATOM	4417 CG LEUB 254	19.552 65.465 71.399 1.00 23.03	C
	4419 CD1 LEU B 254	20.903 65.473 72.136 1.00 23.36	C
ATOM		18.948 64.066 71.382 1.00 21.36	C
ATOM		16.436 67.733 72.041 1.00 23.58	С
ATOM		16.501 68.767 71.422 1.00 23.69	О
ATOM	4429 N GLY B 255	15.724 67.619 73.156 1.00 24.43	N
	4431 CA GLY B 255	15.173 68.775 73.850 1.00 25.36	С
	4434 C GLY B 255	13.829 69.324 73.397 1.00 26.48	С
	4435 O GLY B 255	13.453 70.400 73.837 1.00 26.18	Ο
_	4436 N ALAB 256	13.094 68.573 72.572 1.00 28.31	N
	4438 CA ALA B 256	11.885 69.060 71.870 1.00 29.71	С
	4440 CB ALA B 256	11.624 68.177 70.650 1.00 29.61	С
	4444 C ALA B 256	10.597 69.136 72.719 1.00 31.22	С
	4445 O ALA B 256	10.383 68.285 73.582 1.00 31.35	Ο
	4446 N ASP B 257	9.733 70.131 72.433 1.00 33.04	N
	4448 CA ASP B 257	8.375 70.269 73.051 1.00 34.35	C
	4450 CB ASP B 257	7.821 71.731 73.009 1.00 34.35	C
	4453 CG ASP B 257	8.880 72.813 73.128 1.00 34.61	С
ATOM	4454 OD1 ASP B 257	9.055 73.350 74.248 1.00 34.01	O

ATOM	4455 OD2 ASP B 257	9.524 73.240 72.141 1.00 35.06	Ο
ATOM	4456 C ASP B 257		C
ATOM	4457 O ASP B 257	7.794 68.366 71.645 1.00 36.06	Ο
	4458 N PROB 258	6.037 69.522 72.491 1.00 36.59	N
	4459 CA PRO B 258	5.056 68.687 71.765 1.00 37.00	C
	4461 CB PRO B 258	3.853 69.637 71.622 1.00 37.07	C
	4464 CG PRO B 258	3.865 70.424 72.945 1.00 37.12	C
ATOM	4467 CD PRO B 258	5.332 70.530 73.324 1.00 36.62	C
ATOM	4470 C PRO B 258	5.507 68.146 70.392 1.00 37.02	C
ATOM	4471 O PROB 258	5.474 68.872 69.394 1.00 37.05	O
ATOM	4472 N ALA B 261		N
ATOM		5.885 70.485 64.784 1.00 23.40	С
ATOM	4476 CB ALA B 261	4.724 70.738 63.850 1.00 23.75	С
ATOM	4480 C ALA B 261	7.209 70.402 63.997 1.00 23.27	С
ATOM	4481 O ALA B 261	7.431 69.440 63.219 1.00 22.81	O
ATOM	4482 N ASP B 262	8.056 71.421 64.200 1.00 22.75	N
		9.483 71.415 63.837 1.00 22.57	С
ATOM	4486 CB ASP B 262	10.210 72.484 64.669 1.00 22.41	C
ATOM	4489 CG ASP B 262	11.361 73.132 63.935 1.00 22.49	C
ATOM	4490 OD1 ASP B 262	11.983 72.476 63.082 1.00 22.83	О
ATOM	4491 OD2 ASP B 262	11.726 74.303 64.160 1.00 21.66	О
<b>ATOM</b>	4492 C ASP B 262	10.186 70.036 64.021 1.00 22.69	$\mathbf{C}$
ATOM	4493 O ASP B 262	10.640 69.427 63.040 1.00 22.60	Ο
ATOM	4494 N ALA B 263	10.259 69.542 65.265 1.00 22.63	N
ATOM	4496 CA ALA B 263	10.984 68.300 65.589 1.00 22.14	C
ATOM	4498 CB ALA B 263	11.027 68.104 67.078 1.00 22.25	C
ATOM	4502 C ALA B 263	10.422 67.041 64.923 1.00 22.12	C
ATOM	4503 O ALA B 263	11.153 66.073 64.671 1.00 21.57	О
<b>ATOM</b>	4504 N ARG B 264	9.124 67.053 64.647 1.00 22.30	N
ATOM	4506 CA ARG B 264	8.460 65.917 63.998 1.00 22.71	С
<b>ATOM</b>	4508 CB ARG B 264	6.940 66.161 63.951 1.00 23.47	C
ATOM	4511 CG ARG B 264	6.098 65.046 64.548 1.00 26.53	С
<b>ATOM</b>	4514 CD ARG B 264	5.610 63.988 63.526 1.00 30.96	С
<b>ATOM</b>	4517 NE ARG B 264	4.850 62.928 64.200 1.00 35.24	N
<b>ATOM</b>	4519 CZ ARG B 264	3.593 63.049 64.663 1.00 38.99	C
ATOM	4520 NH1 ARG B 264	2.910 64.189 64.501 1.00 40.61	N
ATOM	4523 NH2 ARG B 264	3.006 62.017 65.285 1.00 39.67	N
<b>ATOM</b>	4526 C ARG B 264	9.018 65.681 62.576 1.00 21.70	С
<b>ATOM</b>	4527 O ARG B 264	9.176 64.540 62.145 1.00 21.68	O
ATOM	4528 N GLN B 265	9.293 66.789 61.879 1.00 20.57	N
<b>ATOM</b>	4530 CA GLN B 265	9.890 66.828 60.544 1.00 19.35	C
<b>ATOM</b>	4532 CB GLN B 265	9.780 68.263 59.958 1.00 19.49	С
	4535 CG GLN B 265	9.099 68.373 58.576 1.00 21.01	C
ATOM	4538 CD GLN B 265	9.776 67.519 57.471 1.00 21.91	C
	4539 OE1 GLN B 265	9.158 66.607 56.923 1.00 21.19	О
ATOM	4540 NE2 GLN B 265	11.038 67.828 57.154 1.00 23.36	N
ATOM	4543 C GLN B 265	11.358 66.407 60.552 1.00 18.25	С
ATOM	4544 O GLN B 265	11.833 65.794 59.599 1.00 17.63	Ο

ATOM	4545 N GLN B 266	12.086 66.775 61.607 1.00 17.43	N
ATOM	4547 CA GLN B 266	13.534 66.520 61.670 1.00 16.68	C
	4549 CB GLN B 266	14.210 67.367 62.778 1.00 16.42	С
ATOM	4552 CG GLN B 266	15.749 67.521 62.603 1.00 17.00	C
ATOM	4555 CD GLN B 266	16.443 68.236 63.777 1.00 17.14	С
ATOM	4556 OE1 GLN B 266	16.095 69.363 64.093 1.00 18.61	C
ATOM	4557 NE2 GLN B 266	17.422 67.586 64.402 1.00 15.38	N
ATOM	4560 C GLN B 266	13.791 65.019 61.862 1.00 15.63	С
ATOM	4561 O GLN B 266	14.673 64.433 61.224 1.00 14.42	O
ATOM	4562 N ARG B 267	13.004 64.420 62.753 1.00 15.02	N
ATOM	4564 CA ARG B 267	13.029 62.981 62.986 1.00 14.67	C
ATOM		12.005 62.592 64.037 1.00 14.62	C
ATOM	4569 CG ARG B 267	12.304 63.045 65.428 1.00 15.59	C
ATOM	4572 CD ARG B 267	11.209 62.632 66.388 1.00 17.40	C
ATOM	4575 NE ARG B 267	11.338 63.258 67.702 1.00 18.98	N
ATOM	4577 CZ ARG B 267	10.404 63.991 68.299 1.00 20.96	C
ATOM	4578 NH1 ARG B 267	9.240 64.242 67.704 1.00 22.06	N
<b>ATOM</b>	4581 NH2 ARG B 267	10.641 64.494 69.505 1.00 21.26	N
ATOM	4584 C ARG B 267	12.666 62.248 61.711 1.00 14.38	C
ATOM	4585 O ARG B 267	13.279 61.232 61.376 1.00 14.37	Ο
ATOM	4586 N PHE B 268	11.640 62.741 61.016 1.00 13.88	N
ATOM	4588 CA PHE B 268	11.271 62.153 59.748 1.00 13.74	C
ATOM	4590 CB PHE B 268	9.980 62.728 59.155 1.00 13.86	С
ATOM	4593 CG PHE B 268	9.592 62.052 57.858 1.00 15.91	C
ATOM	4594 CD1 PHE B 268	9.120 60.735 57.866 1.00 16.22	С
ATOM	4596 CE1 PHE B 268	8.814 60.083 56.684 1.00 17.48	С
ATOM	4598 CZ PHE B 268	8.991 60.739 55.470 1.00 18.77	C
ATOM	4600 CE2 PHE B 268	9.475 62.059 55.443 1.00 17.57	С
ATOM	4602 CD2 PHE B 268	9.781 62.700 56.626 1.00 17.00	C
ATOM	4604 C PHE B 268	12.427 62.256 58.743 1.00 12.92	C
ATOM	4605 O PHE B 268	12.834 61.260 58.184 1.00 13.32	O
<b>ATOM</b>	4606 N ALA B 269	12.946 63.450 58.522 1.00 12.15	N
		14.138 63.637 57.709 1.00 11.93	С
<b>ATOM</b>	4610 CB ALA B 269	14.626 65.064 57.821 1.00 11.98	C
ATOM	4614 C ALA B 269	15.253 62.681 58.096 1.00 11.93	C
ATOM	4615 O ALA B 269	15.867 62.076 57.228 1.00 11.90	О
	4616 N HIS B 270	15.491 62.520 59.396 1.00 12.21	N
ATOM	4618 CA HIS B 270	16.558 61.652 59.892 1.00 12.77	C
ATOM	4620 CB HIS B 270	16.608 61.703 61.422 1.00 13.05	C
ATOM	4623 CG HIS B 270	17.682 60.857 62.044 1.00 13.82	C
	4624 ND1 HIS B 270	18.985 61.290 62.193 1.00 14.63	N
	4626 CE1 HIS B 270	19.693 60.351 62.798 1.00 14.72	С
ATOM	4628 NE2 HIS B 270	18.894 59.333 63.065 1.00 14.64	N
ATOM	4630 CD2 HIS B 270	17.628 59.629 62.614 1.00 14.16	C
ATOM	4632 C HIS B 270	16.372 60.219 59.402 1.00 13.02	C
ATOM	4633 O HIS B 270	17.323 59.605 58.948 1.00 13.03	0
ATOM	4634 N PHE B 271	15.135 59.728 59.477 1.00 13.50	N
ATOM	4636 CA PHE B 271	14.764 58.374 59.086 1.00 14.17	C

ATOM 4638 CB PHE B 271 ATOM 4641 CG PHE B 271 ATOM 4642 CDI PHE B 271 ATOM 4642 CDI PHE B 271 ATOM 4644 CE1 PHE B 271 ATOM 4646 CZ PHE B 271 ATOM 4646 CZ PHE B 271 ATOM 4646 CZ PHE B 271 ATOM 4650 CD2 PHE B 271 ATOM 4650 CD2 PHE B 271 ATOM 4651 O PHE B 271 ATOM 4652 C PHE B 271 ATOM 4653 O PHE B 271 ATOM 4654 N THR B 272 ATOM 4656 CA THR B 272 ATOM 4656 CA THR B 272 ATOM 4656 CG THR B 272 ATOM 4656 CG THR B 272 ATOM 4660 OGI THR B 272 ATOM 4660 CGI THR B 272 ATOM 4661 CG THR B 272 ATOM 4662 CG THR B 273 ATOM 4662 CG THR B 273 ATOM 4660 CG THR B 273 ATOM 4660 CG THR B 273 ATOM 4670 CA GLU B 273 ATOM 4670 CB LEU B 274 ATOM 4681 C C GU B 274 ATOM 4682 O GLU B 273 ATOM 4682 O GLU B 273 ATOM 4680 OGI LEU B 274 ATOM 4680 OGI LEU B 274 ATOM 4680 OGI LEU B 274 ATOM 4680 CG LEU B 274 ATOM 4681 C GLU B 273 ATOM 4680 OGI LEU B 274 ATOM 4681 C GLU B 273 ATOM 4682 O GLU B 273 ATOM 4680 OGI LEU B 274 ATOM 4680 OGI LEU B 274 ATOM 4680 OGI LEU B 274 ATOM 4680 CG LEU B 274 ATOM 4680 CG LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4701 O LEU B 274 ATOM 4702 N ALA B 275 ATOM 4701 C B LEU B 274 ATOM 4701 C B LEU B 275 ATOM 4702 N ALA B 275 ATOM 4702 N ALA B 275 ATOM 4704 CA ALA B 275 ATOM 4704 CA ALA B 275 ATOM 4706 CB ALA				
ATOM 4642 CDI PHE B 271 ATOM 4644 CEI PHE B 271 ATOM 4646 CZ PHE B 271 ATOM 4648 CE2 PHE B 271 ATOM 4650 CD2 PHE B 271 ATOM 4650 CD2 PHE B 271 ATOM 4651 O PHE B 271 ATOM 4652 C PHE B 271 ATOM 4653 O PHE B 271 ATOM 4654 N THR B 272 ATOM 4656 CA THR B 272 ATOM 4656 CA THR B 272 ATOM 4666 CG1 THR B 272 ATOM 4666 CG2 THR B 272 ATOM 4666 CG THR B 272 ATOM 4666 C THR B 272 ATOM 4666 C THR B 272 ATOM 4667 O THR B 272 ATOM 4667 O THR B 273 ATOM 4670 CA GLU B 273 ATOM 4670 CA GLU B 273 ATOM 4670 CA GLU B 273 ATOM 4670 CB GLU B 273 ATOM 4681 C GLU B 273 ATOM 4682 CD GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4680 CD GLU B 273 ATOM 4681 C GLU B 274 ATOM 4690 CG LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4700 C LEU B 274 ATOM 4700 C LEU B 274 ATOM 4701 C ALA B 275 ATOM 4702 N ALA B 275 ATOM 4704 CA ALA B 275 ATOM 4706 CB ALA B 275 ATOM 4706 CB ALA B 275 ATOM 4711 C ALA B 275 ATOM 4712 C BLE B 276 ATOM 472 C C BLE B 276 ATOM 4730 O ILE B 276 ATOM 4731 N ILE B 276 ATOM 4731 N ILE B 277 ATOM 4731 N ILE B 276 ATOM 4731 N ILE B 276 ATOM 4731 N ILE B 277 ATOM 4731 N ILE B 277 ATOM 4731 N ILE B 276 ATOM 47	ATOM	4638 CB PHE B 271	13.295 58.092 59.458 1.00 14.50	С
ATOM 4644 CE1 PHE B 271 ATOM 4646 CZ PHE B 271 ATOM 4646 CZ PHE B 271 ATOM 4658 CE2 PHE B 271 ATOM 4650 CD2 PHE B 271 ATOM 4650 CD2 PHE B 271 ATOM 4651 N THR B 272 ATOM 4652 C PHE B 271 ATOM 4654 N THR B 272 ATOM 4656 CA THR B 272 ATOM 4660 OG1 THR B 272 ATOM 4660 CG2 THR B 272 ATOM 4660 CG2 THR B 272 ATOM 4667 O THR B 272 ATOM 4667 C A GLU B 273 ATOM 4670 CA GLU B 273 ATOM 4670 CA GLU B 273 ATOM 4678 CD GLU B 273 ATOM 4678 CD GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4681 C GLU B 273 ATOM 4682 O GLU B 273 ATOM 4682 O GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4681 C GLU B 274 ATOM 4687 CB LEU B 274 ATOM 4687 CB LEU B 274 ATOM 4680 CE2 LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4700 C LEU B 274 ATOM 4701 O LEU B 274 ATOM 4702 N ALA B 275 ATOM 4701 C CA LA B 275 ATOM 4702 CD ILE B 276 ATOM 4711 C ALA B 275 ATOM 4711 C ALA B 275 ATOM 4712 CD IILE B 276 ATOM 4725 CG2 ILE B 276 ATOM 4725 CG2 ILE B 276 ATOM 4725 CG2 ILE B 276 ATOM 4731 N ILE B 276	ATOM	4641 CG PHE B 271	13.095 57.360 60.784 1.00 15.95	С
ATOM 4646 CZ PHE B 271 ATOM 4648 CE2 PHE B 271 ATOM 4650 CD2 PHE B 271 ATOM 4651 CD2 PHE B 271 ATOM 4652 C PHE B 271 ATOM 4652 C PHE B 271 ATOM 4654 N THR B 272 ATOM 4656 CA THR B 272 ATOM 4656 CA THR B 272 ATOM 4656 CG THR B 272 ATOM 4666 CG1 THR B 272 ATOM 4660 OG1 THR B 272 ATOM 4660 CG1 THR B 272 ATOM 4661 C THR B 272 ATOM 4666 C THR B 272 ATOM 4666 C THR B 272 ATOM 4667 O THR B 272 ATOM 4668 N GLU B 273 ATOM 4670 CA GLU B 273 ATOM 4670 CA GLU B 273 ATOM 4670 CB GLU B 273 ATOM 4670 CB GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4681 C GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4681 C GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4681 C GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4681 C GLU B 273 ATOM 4682 C GLU B 273 ATOM 4683 N LEU B 274 ATOM 4690 C CD LEU B 274 ATOM 4690 C CD LEU B 274 ATOM 4690 C CD LEU B 274 ATOM 4701 O LEU B 274 ATOM 4701 O LEU B 274 ATOM 4701 O LEU B 274 ATOM 4701 C C LEU B 275 ATOM 4701 C C LEU B 276 ATOM 4716 CB ILE B 276 ATOM 4725 CG2 ILE B 276 ATOM 4720 C ILE B 276 ATOM 4730 O ILE B 276 ATOM 4731 N ILE B 277 ATOM 47	ATOM	4642 CD1 PHE B 271	13.797 57.709 61.926 1.00 17.54	C
ATOM 4648 CE2 PHE B 271 ATOM 4650 CD2 PHE B 271 ATOM 4650 CD2 PHE B 271 ATOM 4652 C PHE B 271 ATOM 4652 C PHE B 271 ATOM 4653 O PHE B 271 ATOM 4654 N THR B 272 ATOM 4656 CA THR B 272 ATOM 4656 CB THR B 272 ATOM 4656 CG2 THR B 272 ATOM 4660 OG1 THR B 272 ATOM 4666 C THR B 272 ATOM 4666 C THR B 272 ATOM 4666 C THR B 272 ATOM 4667 O THR B 272 ATOM 4667 O THR B 273 ATOM 4670 CA GLU B 273 ATOM 4670 CB GLU B 273 ATOM 4670 CB GLU B 273 ATOM 4670 CB GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4681 C GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4681 C GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4681 C GLU B 273 ATOM 4682 O GLU B 273 ATOM 4685 CA LEU B 274 ATOM 4696 CD2 LEU B 274 ATOM 4696 CD2 LEU B 274 ATOM 4701 O LEU B 274 ATOM 4701 O LEU B 274 ATOM 4701 C CALA B 275 ATOM 4701 C CALA B 275 ATOM 4701 C CB GLU B 273 ATOM 4701 C CB GLU B 274 ATOM 4701 C CB GLU B 274 ATOM 4701 C CB GLU B 274 ATOM 4701 C LEU B 274 ATOM 4701 C CB GLU B 274 ATOM 4701 C CB GLU B 275 ATOM 4701 C CB GLU B 274 ATOM 4701 C CB GLU B 274 ATOM 4701 C CB GLU B 275 ATOM 4701 C CB GLU B 275 ATOM 4701 C CB GLU B 276 ATOM 4711 C ALA B 275 ATOM 4712 N ILE B 276 ATOM 4712 N ILE B 276 ATOM 4712 CDI ILE B 276 ATOM 4712 CDI ILE B 276 ATOM 4712 CDI ILE B 276 ATOM 4725 CG2 ILE B 276 ATOM 4720 C ILE B 276 ATOM 4730 O ILE B 276 ATOM 4730 O ILE B 276 ATOM 4731 N ILE B 277 AT	<b>ATOM</b>	4644 CE1 PHE B 271	13.596 57.045 63.129 1.00 18.13	C
ATOM 4650 CD2 PHE B 271 ATOM 4652 C PHE B 271 ATOM 4653 O PHE B 271 ATOM 4653 O PHE B 271 ATOM 4654 N THR B 272 ATOM 4656 CA THR B 272 ATOM 4660 OG1 THR B 272 ATOM 4660 CG2 THR B 272 ATOM 4666 C THR B 272 ATOM 4666 C THR B 272 ATOM 4666 C THR B 272 ATOM 4667 O THR B 272 ATOM 4668 N GLU B 273 ATOM 4670 CA GLU B 273 ATOM 4670 CA GLU B 273 ATOM 4675 CG GLU B 273 ATOM 4678 CD GLU B 273 ATOM 4678 CD GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4681 C GLU B 273 ATOM 4681 C GLU B 273 ATOM 4682 O GLU B 273 ATOM 4683 N LEU B 274 ATOM 4685 CA LEU B 274 ATOM 4686 CD LEU B 274 ATOM 4687 CB LEU B 274 ATOM 4680 OE2 GLU B 273 ATOM 4670 CA GLU B 273 ATOM 4670 CB LEU B 274 ATOM 4670 CA GLU B 273 ATOM 4670 CB LEU B 274 ATOM 4670 CB LEU B 274 ATOM 4670 CB LEU B 274 ATOM 4670 CG LEU B 274 ATOM 4700 C LEU B 276 ATOM 4716 CB ILE B 276 AT	ATOM	4646 CZ PHE B 271	12.689 56.049 63.224 1.00 19.25	С
ATOM 4652 C PHE B 271	<b>ATOM</b>	4648 CE2 PHE B 271		C
ATOM 4653 O PHE B 271 ATOM 4653 O PHE B 271 ATOM 4654 N THIR B 272 ATOM 4656 CA THR B 272 ATOM 4656 CA THR B 272 ATOM 4656 CA THR B 272 ATOM 4658 CB THR B 272 ATOM 4650 OGI THR B 272 ATOM 4660 OGI THR B 272 ATOM 4660 CGI THR B 272 ATOM 4666 C THR B 272 ATOM 4666 C THR B 272 ATOM 4667 O THR B 272 ATOM 4667 O THR B 273 ATOM 4667 O CA GLU B 273 ATOM 4670 CA GLU B 273 ATOM 4675 CG GLU B 273 ATOM 4675 CG GLU B 273 ATOM 4676 ODI GLU B 273 ATOM 4676 CD GLU B 273 ATOM 4678 CD GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4681 C GLU B 273 ATOM 4682 O GLU B 273 ATOM 4682 O GLU B 273 ATOM 4683 N LEU B 274 ATOM 4685 CA LEU B 274 ATOM 4690 CD LEU B 274 ATOM 4700 C SA ALA B 275 ATOM 4701 C ALA B 275 ATOM 4702 N ALA B 275 ATOM 4704 CA ALA B 275 ATOM 4706 CB BLE B 276 ATOM 4711 C ALA B 275 ATOM 4712 N ILE B 276 ATOM 4712 N ILE B 276 ATOM 4713 N ILE B 276 ATOM 4725 CG2 ILE B 276 ATOM 4725 CG2 ILE B 276 ATOM 4720 C ILE B 276 ATOM 4730 O ILE B 276 ATOM 4730 O ILE B 276 ATOM 4730 O ILE B 276 ATOM 4731 N ILE B 277 ATOM 4731 N ILE B 276 ATOM 4731 N ILE B 276 ATOM 4731 N ILE B 276 ATOM	<b>ATOM</b>	4650 CD2 PHE B 271	12.166 56.348 60.885 1.00 18.41	C
ATOM 4654 N THR B 272 ATOM 4656 CA THR B 272 ATOM 4658 CB THR B 272 ATOM 4660 OG1 THR B 272 ATOM 4660 OG1 THR B 272 ATOM 4666 C THR B 272 ATOM 4667 O THR B 272 ATOM 4668 N GLU B 273 ATOM 4670 CA GLU B 273 ATOM 4670 CA GLU B 273 ATOM 4675 CG GLU B 273 ATOM 4675 CG GLU B 273 ATOM 4676 CD GLU B 273 ATOM 4679 OE1 GLU B 273 ATOM 4680 OE2 GLU B 274 ATOM 4680 OE2 GLU B 274 ATOM 4680 CG LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4700 C LEU B 275 ATOM 4700 C B ALA B 275 ATOM 4710 C ALA B 275 ATOM 4711 C A ILE B 276 ATOM 4712 CD1 ILE B 276 ATOM 4712 CD1 ILE B 276 ATOM 4713 N ILE B 276 ATOM 4729 C ILE B 276 ATOM 4729 C ILE B 276 ATOM 4730 O ILE B 276 ATOM 4731 N ILE B 277 ATOM 4731 N ILE B 276 ATOM 4731 N ILE B 277 ATOM 4731 N ILE B 277 ATOM 4	<b>ATOM</b>	4652 C PHE B 271	14.936 58.168 57.583 1.00 14.72	C
ATOM 4656 CA THR B 272 ATOM 4658 CB THR B 272 ATOM 4660 OG1 THR B 272 ATOM 4660 OG1 THR B 272 ATOM 4660 CG2 THR B 272 ATOM 4660 C THR B 272 ATOM 4666 C THR B 272 ATOM 4666 C THR B 272 ATOM 4667 O THR B 272 ATOM 4668 N GLU B 273 ATOM 4670 CA GLU B 273 ATOM 4675 CG GLU B 273 ATOM 4675 CG GLU B 273 ATOM 4679 OE1 GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4681 C GLU B 273 ATOM 4681 C GLU B 273 ATOM 4682 O GLU B 273 ATOM 4683 N LEU B 274 ATOM 4685 CA LEU B 274 ATOM 4686 CD LEU B 274 ATOM 4687 CB LEU B 274 ATOM 4686 CD LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4700 C LEU B 274 ATOM 4701 O LEU B 274 ATOM 4701 O LEU B 274 ATOM 4702 N ALA B 275 ATOM 4702 N ALA B 275 ATOM 4706 CB ALA B 275 ATOM 4707 C ALB B 276 ATOM 4716 CB ILE B 276 ATOM 4725 CG2 ILE B 276 ATOM 4725 CG2 ILE B 276 ATOM 4731 N ILE B 276 ATOM 4731 N ILE B 277 ATOM	<b>ATOM</b>	4653 O PHE B 271	15.368 57.086 57.140 1.00 15.05	О
ATOM 4658 CB THR B 272 ATOM 4660 OG1 THR B 272 ATOM 4660 OG1 THR B 272 ATOM 4666 C THR B 272 ATOM 4667 O THR B 272 ATOM 4668 N GLU B 273 ATOM 4670 CA GLU B 273 ATOM 4675 CG GLU B 273 ATOM 4678 CD GLU B 273 ATOM 4679 OE1 GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4681 C GLU B 273 ATOM 4682 O GLU B 273 ATOM 4683 N LEU B 274 ATOM 4685 CA LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4690 CD1 LEU B 274 ATOM 4690 CD2 LEU B 274 ATOM 4700 C LEU B 274 ATOM 4700 C LEU B 274 ATOM 4701 O LEU B 274 ATOM 4700 C LEU B 274 ATOM 4701 C ALA B 275 ATOM 4704 CA ALA B 275 ATOM 4704 CA ALA B 275 ATOM 4706 CB ALA B 275 ATOM 4711 C ALA B 275 ATOM 4712 CD1 ILE B 276 ATOM 4712 CD1 ILE B 276 ATOM 4712 CD1 ILE B 276 ATOM 4722 CG2 ILE B 276 ATOM 4731 N ILE B 276 ATOM 4731 N ILE B 276 ATOM 4731 N ILE B 277 ATOM 4731 N IL	ATOM			
ATOM 4660 OG1 THR B 272 ATOM 4660 CG2 THR B 272 ATOM 4662 CG2 THR B 272 ATOM 4666 C THR B 272 ATOM 4667 O THR B 272 ATOM 4667 O THR B 273 ATOM 4668 N GLU B 273 ATOM 4668 N GLU B 273 ATOM 4670 CA GLU B 273 ATOM 4672 CB GLU B 273 ATOM 4675 CG GLU B 273 ATOM 4675 CG GLU B 273 ATOM 4679 OE1 GLU B 273 ATOM 4679 OE1 GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4681 C GLU B 273 ATOM 4682 O GLU B 273 ATOM 4682 C GLU B 274 ATOM 4683 N LEU B 274 ATOM 4685 CA LEU B 274 ATOM 4687 CB LEU B 274 ATOM 4687 CB LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4700 C LEU B 274 ATOM 4701 C ALA B 275 ATOM 4704 CA ALA B 275 ATOM 4704 CA ALA B 275 ATOM 4704 CA BLA B 275 ATOM 4706 CB ALA B 275 ATOM 4706 CB ALA B 275 ATOM 4706 CB ALA B 275 ATOM 4711 C ALA B 275 ATOM 4712 N ILE B 276 ATOM 4712 CD1 ILE B 276 ATOM 4713 N ILE B 276 ATOM 4731 N ILE B 277	<b>ATOM</b>	4656 CA THR B 272	14.748 59.149 55.328 1.00 14.87	C
ATOM 4662 CG2 THR B 272 ATOM 4666 C THR B 272 ATOM 4666 N GLU B 273 ATOM 4670 CA GLU B 273 ATOM 4672 CB GLU B 273 ATOM 4675 CG GLU B 273 ATOM 4675 CG GLU B 273 ATOM 4676 CD GLU B 273 ATOM 4670 OE1 GLU B 273 ATOM 4670 OE1 GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4681 C GLU B 273 ATOM 4682 O GLU B 273 ATOM 4683 N LEU B 274 ATOM 4685 CA LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4690 CD1 LEU B 274 ATOM 4690 CD1 LEU B 274 ATOM 4690 CD1 LEU B 274 ATOM 4700 C LEU B 274 ATOM 4701 O LEU B 274 ATOM 4704 CA ALA B 275 ATOM 4704 CA ALA B 275 ATOM 4706 CB ALA B 275 ATOM 4716 CB ILE B 276 ATOM 4716 CB ILE B 276 ATOM 4716 CB ILE B 276 ATOM 4721 CD1 ILE B 276 ATOM 4722 CG1 ILE B 276 ATOM 4730 O ILE B 276 ATOM 4730 O ILE B 276 ATOM 4730 O ILE B 276 ATOM 4731 N ILE B 276 ATOM 4731 N ILE B 276 ATOM 4731 N ILE B 277 ATOM 4731 N ILE B 276 ATOM 4731 N ILE B 277	ATOM			C
ATOM 4666 C THR B 272	<b>ATOM</b>	4660 OG1 THR B 272	14.749 61.567 55.057 1.00 12.34	C
ATOM 4667 O THR B 272 ATOM 4668 N GLU B 273 ATOM 4670 CA GLU B 273 ATOM 4670 CA GLU B 273 ATOM 4675 CG GLU B 273 ATOM 4676 CD GLU B 273 ATOM 4676 CD GLU B 273 ATOM 4678 CD GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4681 C GLU B 273 ATOM 4681 C GLU B 273 ATOM 4682 O GLU B 273 ATOM 4685 CA LEU B 274 ATOM 4686 CD GLU B 274 ATOM 4686 CD GLU B 274 ATOM 4687 CB LEU B 274 ATOM 4687 CB LEU B 274 ATOM 4680 CE GLU B 273 ATOM 4681 C GLU B 273 ATOM 4682 O GLU B 273 ATOM 4683 N LEU B 274 ATOM 4686 CD LEU B 274 ATOM 4686 CD LEU B 274 ATOM 4687 CB LEU B 274 ATOM 4686 CB LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4700 C LEU B 274 ATOM 4700 C LEU B 274 ATOM 4701 O LEU B 274 ATOM 4701 C A ALA B 275 ATOM 4704 CA ALA B 275 ATOM 4706 CB ALA B 275 ATOM 4706 CB ALA B 275 ATOM 4714 CA ILE B 276 ATOM 4716 CB ILE B 276 ATOM 4718 CGI ILE B 276 ATOM 4729 C ILE B 276 ATOM 4730 O ILE B 276 ATOM 4730 O ILE B 276 ATOM 4731 N ILE B 277 ATOM 4731 N ILE B 276 ATOM 4731 N ILE B 276 ATOM 4731 N ILE B 277 ATOM 4731 N ILE B 276 ATOM 4731 N ILE B 277	<b>ATOM</b>	4662 CG2 THR B 272	12.651 60.545 55.069 1.00 14.67	C
ATOM 4668 N GLU B 273 ATOM 4670 CA GLU B 273 ATOM 4672 CB GLU B 273 ATOM 4675 CG GLU B 273 ATOM 4678 CD GLU B 273 ATOM 4679 OE1 GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4681 C GLU B 273 ATOM 4682 O GLU B 273 ATOM 4683 N LEU B 274 ATOM 4686 CA LEU B 274 ATOM 4686 CA LEU B 274 ATOM 4680 CE2 GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4681 C GLU B 273 ATOM 4682 O GLU B 273 ATOM 4683 N LEU B 274 ATOM 4686 CA LEU B 274 ATOM 4687 CB LEU B 274 ATOM 4687 CB LEU B 274 ATOM 4696 CD2 LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4700 C LEU B 274 ATOM 4701 O LEU B 274 ATOM 4701 O LEU B 274 ATOM 4704 CA ALA B 275 ATOM 4704 CA ALA B 275 ATOM 4706 CB ALA B 275 ATOM 4711 C ALA B 275 ATOM 4711 C ALA B 275 ATOM 4712 N ILE B 276 ATOM 4718 CG1 ILE B 276 ATOM 4725 CG2 ILE B 276 ATOM 4730 O ILE B 276 ATOM 4730 O ILE B 276 ATOM 4731 N ILE B 277	<b>ATOM</b>	4666 C THR B 272	16.219 59.109 54.961 1.00 15.29	C
ATOM 4670 CA GLUB 273 ATOM 4672 CB GLUB 273 ATOM 4675 CG GLUB 273 ATOM 4678 CD GLUB 273 ATOM 4679 OE1 GLUB 273 ATOM 4679 OE1 GLUB 273 ATOM 4680 OE2 GLUB 273 ATOM 4681 C GLUB 273 ATOM 4682 O GLUB 273 ATOM 4683 N LEUB 274 ATOM 4685 CA LEUB 274 ATOM 4686 CB LEUB 274 ATOM 4686 CB LEUB 274 ATOM 4686 CB LEUB 274 ATOM 4687 CB LEUB 274 ATOM 4687 CB LEUB 274 ATOM 4690 CG LEUB 274 ATOM 4690 CG LEUB 274 ATOM 4690 CG LEUB 274 ATOM 4691 CB LEUB 274 ATOM 4692 CD1 LEUB 274 ATOM 4694 CD2 LEUB 274 ATOM 4696 CD2 LEUB 274 ATOM 4700 C LEUB 274 ATOM 4701 O LEUB 274 ATOM 4704 CA ALAB 275 ATOM 4704 CA ALAB 275 ATOM 4706 CB ALAB 275 ATOM 4711 C ALAB 275 ATOM 4711 C ALAB 275 ATOM 4712 N ILEB 276 ATOM 4712 CD1 ILEB 276 ATOM 4729 C ILEB 276 ATOM 4730 O ILEB 276 ATOM 4730 O ILEB 276 ATOM 4731 N ILEB 276 ATOM 4731 N ILEB 276 ATOM 4730 O ILEB 276 ATOM 4731 N ILEB 277 ATOM 4730 O ILEB 276 ATOM 4731 N ILEB 276 ATOM 4731 N ILEB 276 ATOM 4731 N ILEB 277 ATOM 4730 O ILEB 276 ATOM 4731 N ILEB 276 ATOM 4731 N ILEB 276 ATOM 4731 N ILEB 277	ATOM	4667 O THR B 272	16.640 58.450 54.001 1.00 14.04	О
ATOM 4672 CB GLU B 273 ATOM 4675 CG GLU B 273 ATOM 4678 CD GLU B 273 ATOM 4679 OE1 GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4681 C GLU B 273 ATOM 4681 C GLU B 273 ATOM 4682 O GLU B 273 ATOM 4685 CA LEU B 274 ATOM 4687 CB LEU B 274 ATOM 4686 CD2 LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4700 C LEU B 274 ATOM 4701 O LEU B 274 ATOM 4700 C LEU B 274 ATOM 4700 C LEU B 274 ATOM 4701 C ALA B 275 ATOM 4704 CA ALA B 275 ATOM 4706 CB ALA B 275 ATOM 4706 CB ALA B 275 ATOM 4710 C C ALA B 275 ATOM 4710 C B ILE B 276 ATOM 4711 CA ILE B 276 ATOM 4712 N ILE B 276 ATOM 4712 CD1 ILE B 276 ATOM 4712 CD1 ILE B 276 ATOM 472 CG1 ILE B 276 ATOM 4730 O ILE B 276 ATOM 4730 O ILE B 276 ATOM 4730 O ILE B 276 ATOM 4731 N ILE B 276	ATOM	4668 N GLUB 273	16.997 59.818 55.764 1.00 16.21	N
ATOM 4675 CG GLUB 273 ATOM 4678 CD GLUB 273 ATOM 4679 OE1 GLUB 273 ATOM 4680 OE2 GLUB 273 ATOM 4681 C GLUB 273 ATOM 4681 C GLUB 273 ATOM 4682 O GLUB 273 ATOM 4685 CA LEUB 274 ATOM 4685 CA LEUB 274 ATOM 4690 CG LEUB 274 ATOM 4691 C DI LEUB 274 ATOM 4690 CD LEUB 274 ATOM 4691 C DI LEUB 274 ATOM 4690 CD LEUB 274 ATOM 4690 CD LEUB 274 ATOM 4700 C LEUB 274 ATOM 4700 C LEUB 274 ATOM 4701 O LEUB 274 ATOM 4701 O LEUB 274 ATOM 4700 C A ALA B 275 ATOM 4701 C A ALA B 275 ATOM 4701 C A B 275 ATOM 4701 C A B 275 ATOM 4701 C B ILE B 276 ATOM 4711 C A ILE B 276 ATOM 4712 N ILE B 276 ATOM 4712 CDI ILE B 276 ATOM 4714 CA ILE B 276 ATOM 4715 CG2 ILE B 276 ATOM 4720 C ILE B 276 ATOM 4730 O ILE B 276 ATOM 4730 O ILE B 276 ATOM 4731 N ILE B 277 ATOM 4731 N ILE B 277 ATOM 4731 N ILE B 277 ATOM 4731 N ILE B 276 ATOM 4731 N ILE B 277 ATOM 4731 N ILE B 277	<b>ATOM</b>	4670 CA GLUB 273	18.405 59.963 55.485 1.00 17.15	C
ATOM 4678 CD GLUB 273 ATOM 4679 OE1 GLUB 273 ATOM 4680 OE2 GLUB 273 ATOM 4681 C GLUB 273 ATOM 4682 O GLUB 273 ATOM 4683 N LEUB 274 ATOM 4685 CA LEUB 274 ATOM 4686 CB LEUB 274 ATOM 4690 CG LEUB 274 ATOM 4690 CD1 LEUB 274 ATOM 4690 CD1 LEUB 274 ATOM 4700 C LEUB 274 ATOM 4700 C LEUB 274 ATOM 4700 C LEUB 274 ATOM 4701 O LEUB 274 ATOM 4701 O LEUB 274 ATOM 4701 C ALAB 275 ATOM 4706 CB ALAB 275 ATOM 4710 C ALAB 275 ATOM 4710 C ALAB 275 ATOM 4711 O ALAB 275 ATOM 4711 C ALAB 275 ATOM 4712 N ILEB 276 ATOM 4712 N ILEB 276 ATOM 4714 CA ILEB 276 ATOM 4715 CG ILEB 276 ATOM 4716 CB ILEB 276 ATOM 4716 CB ILEB 276 ATOM 4716 CB ILEB 276 ATOM 4720 C ILEB 276 ATOM 4730 O ILEB 276 ATOM 4730 O ILEB 276 ATOM 4731 N ILEB 276 ATOM 4731 N ILEB 277 ATOM 4731 N ILEB 277 ATOM 4731 N ILEB 276 ATOM 4731 N ILEB 276 ATOM 4731 N ILEB 277 ATOM 4731 N ILEB 277 ATOM 4731 N ILEB 277 ATOM 4731 N ILEB 276 ATOM 4731 N ILEB 277	ATOM	4672 CB GLU B 273	18.992 61.146 56.242 1.00 17.12	C
ATOM 4680 OE2 GLU B 273 ATOM 4680 OE2 GLU B 273 ATOM 4681 C GLU B 273 ATOM 4682 O GLU B 273 ATOM 4683 N LEU B 274 ATOM 4685 CA LEU B 274 ATOM 4687 CB LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4690 CD1 LEU B 274 ATOM 4696 CD2 LEU B 274 ATOM 4700 C LEU B 274 ATOM 4701 O LEU B 274 ATOM 4701 O LEU B 274 ATOM 4702 N ALA B 275 ATOM 4706 CB ALA B 275 ATOM 4706 CB ALA B 275 ATOM 4710 C ALA B 275 ATOM 4711 O ALA B 275 ATOM 4710 C ALA B 275 ATOM 4711 C ALA B 275 ATOM 4711 C ALA B 275 ATOM 4712 N ILE B 276 ATOM 4712 N ILE B 276 ATOM 4714 CA ILE B 276 ATOM 4715 CG2 ILE B 276 ATOM 4720 C ILE B 276 ATOM 4730 O ILE B 276 ATOM 4730 O ILE B 276 ATOM 4731 N ILE B 277 ATOM 4731 N ILE B 276 ATOM 4731 N ILE B 276 ATOM 4731 N ILE B 277 ATOM 4731 N ILE B 277 ATOM 4731 N ILE B 276	<b>ATOM</b>	4675 CG GLU B 273	18.835 62.413 55.419 1.00 18.24	С
ATOM 4680 OE2 GLU B 273 ATOM 4681 C GLU B 273 ATOM 4682 O GLU B 273 ATOM 4683 N LEU B 274 ATOM 4685 CA LEU B 274 ATOM 4687 CB LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4696 CD2 LEU B 274 ATOM 4700 C LEU B 274 ATOM 4701 O LEU B 274 ATOM 4702 N ALA B 275 ATOM 4706 CB ALA B 275 ATOM 4710 C B ILE B 276 ATOM 4711 CO I ILE B 276 ATOM 4710 C B ILE B 276 ATOM 4711 COI ILE B 276 ATOM 4711 COI ILE B 276 ATOM 4710 C B ILE B 276 ATOM 4711 COI ILE B 276 ATOM 4711 COI ILE B 276 ATOM 4711 COI ILE B 276 ATOM 4712 COI ILE B 276 ATOM 4713 N ILE B 276 ATOM 4729 C ILE B 276 ATOM 4731 N ILE B 276	<b>ATOM</b>	4678 CD GLU B 273	19.309 63.646 56.145 1.00 20.25	C
ATOM 4681 C GLU B 273	<b>ATOM</b>			C
ATOM 4682 O GLUB 273 20.086 58.355 55.009 1.00 18.09 ATOM 4683 N LEUB 274 18.716 57.915 56.740 1.00 17.88 N ATOM 4685 CA LEUB 274 19.280 56.589 56.962 1.00 18.24 C ATOM 4690 CG LEUB 274 18.919 56.064 58.345 1.00 18.44 C ATOM 4690 CG LEUB 274 18.910 56.182 60.858 1.00 21.07 ATOM 4696 CD2 LEUB 274 20.825 57.222 59.575 1.00 21.28 ATOM 4700 C LEUB 274 19.575 54.755 55.458 1.00 17.93 C ATOM 4701 O LEUB 274 19.575 54.755 55.458 1.00 17.46 O ATOM 4702 N ALAB 275 17.562 55.768 55.431 1.00 17.37 C ATOM 4706 CB ALAB 275 15.553 55.269 54.142 1.00 16.76 ATOM 4710 O ALAB 275 15.553 55.269 54.142 1.00 16.76 ATOM 4711 O ALAB 275 18.088 54.097 52.466 1.00 18.14 O ATOM 4712 N ILEB 276 18.107 56.330 52.770 1.00 18.68 N ATOM 4714 CA ILEB 276 ATOM 4716 CB ILEB 276 ATOM 4718 CG1 ILEB 276 ATOM 4725 CG2 ILEB 276 ATOM 4729 C ILEB 276 ATOM 4730 O ILEB 276 ATOM 4731 N ILEB 277 20.919 56.016 52.918 1.00 20.23 N	ATOM	4680 OE2 GLU B 273	20.479 63.646 56.548 1.00 20.79	C
ATOM 4683 N LEU B 274 ATOM 4685 CA LEU B 274 ATOM 4687 CB LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4692 CD1 LEU B 274 ATOM 4696 CD2 LEU B 274 ATOM 4700 C LEU B 274 ATOM 4701 O LEU B 274 ATOM 4702 N ALA B 275 ATOM 4706 CB ALA B 275 ATOM 4710 C ALA B 275 ATOM 4711 O ALA B 275 ATOM 4711 O ALA B 275 ATOM 4712 N ILE B 276 ATOM 4714 CA ILE B 276 ATOM 4715 CG2 ILE B 276 ATOM 4725 CG2 ILE B 276 ATOM 4729 C ILE B 276 ATOM 4731 N ILE B 277	<b>ATOM</b>	4681 C GLU B 273	19.148 58.674 55.741 1.00 17.51	C
ATOM 4685 CA LEU B 274 ATOM 4687 CB LEU B 274 ATOM 4687 CB LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4692 CD1 LEU B 274 ATOM 4696 CD2 LEU B 274 ATOM 4700 C LEU B 274 ATOM 4701 O LEU B 274 ATOM 4702 N ALA B 275 ATOM 4706 CB ALA B 275 ATOM 4710 C ALA B 275 ATOM 4710 C ALA B 275 ATOM 4711 O ALA B 275 ATOM 4711 O ALA B 275 ATOM 4712 N ILE B 276 ATOM 4714 CA ILE B 276 ATOM 4716 CB ILE B 276 ATOM 4716 CB ILE B 276 ATOM 4718 CG1 ILE B 276 ATOM 4720 CILE B 276 ATOM 4721 CD1 ILE B 276 ATOM 4731 N ILE B 277	<b>ATOM</b>	4682 O GLU B 273	20.086 58.355 55.009 1.00 18.09	Ο
ATOM 4687 CB LEU B 274 ATOM 4690 CG LEU B 274 ATOM 4692 CD1 LEU B 274 ATOM 4696 CD2 LEU B 274 ATOM 4700 C LEU B 274 ATOM 4701 O LEU B 274 ATOM 4702 N ALA B 275 ATOM 4706 CB ALA B 275 ATOM 4710 C ALA B 275 ATOM 4710 C ALA B 275 ATOM 4711 O ALA B 275 ATOM 4712 N ILE B 276 ATOM 4716 CB ILE B 276 ATOM 4716 CB ILE B 276 ATOM 4721 CD1 ILE B 276 ATOM 4722 C ILE B 276 ATOM 4731 N ILE B 277	ATOM	4683 N LEUB 274	18.716 57.915 56.740 1.00 17.88	N
ATOM 4690 CG LEUB 274 19.333 56.898 59.559 1.00 20.02 CATOM 4692 CD1 LEUB 274 18.910 56.182 60.858 1.00 21.07 CD ATOM 4696 CD2 LEUB 274 20.825 57.222 59.575 1.00 21.28 ATOM 4700 C LEUB 274 18.811 55.611 55.880 1.00 17.93 CD ATOM 4701 O LEUB 274 19.575 54.755 55.458 1.00 17.46 OD ATOM 4702 N ALAB 275 17.562 55.768 55.431 1.00 17.83 NOTOM 4704 CA ALAB 275 16.987 54.924 54.386 1.00 17.37 ATOM 4706 CB ALAB 275 15.553 55.269 54.142 1.00 16.76 CD ATOM 4710 C ALAB 275 17.778 55.084 53.118 1.00 18.01 CD ATOM 4711 O ALAB 275 18.088 54.097 52.466 1.00 18.14 OD ATOM 4712 N ILEB 276 18.107 56.330 52.770 1.00 18.68 NOTOM 4714 CA ILEB 276 18.945 56.613 51.623 1.00 18.96 CD ATOM 4716 CB ILEB 276 19.214 58.142 51.475 1.00 19.22 CD ATOM 4718 CG1 ILEB 276 19.214 58.142 51.475 1.00 19.22 CD ATOM 4721 CD1 ILEB 276 18.007 60.347 51.022 1.00 17.60 CD ATOM 4725 CG2 ILEB 276 20.450 58.409 50.592 1.00 19.31 CD ATOM 4730 O ILEB 276 20.450 58.409 50.592 1.00 19.31 CD ATOM 4731 N ILEB 276 20.620 55.113 50.901 1.00 20.42 ATOM 4731 N ILEB 277 20.919 56.016 52.918 1.00 20.23	<b>ATOM</b>	4685 CA LEU B 274	19.280 56.589 56.962 1.00 18.24	C
ATOM 4692 CD1 LEU B 274 18.910 56.182 60.858 1.00 21.07 ATOM 4696 CD2 LEU B 274 20.825 57.222 59.575 1.00 21.28 ATOM 4700 C LEU B 274 18.811 55.611 55.880 1.00 17.93 ATOM 4701 O LEU B 274 19.575 54.755 55.458 1.00 17.46 ATOM 4702 N ALA B 275 17.562 55.768 55.431 1.00 17.83 N ATOM 4704 CA ALA B 275 16.987 54.924 54.386 1.00 17.37 ATOM 4706 CB ALA B 275 15.553 55.269 54.142 1.00 16.76 ATOM 4710 C ALA B 275 15.553 55.269 54.142 1.00 16.76 ATOM 4711 O ALA B 275 18.088 54.097 52.466 1.00 18.14 ATOM 4712 N ILE B 276 18.107 56.330 52.770 1.00 18.68 N ATOM 4714 CA ILE B 276 18.945 56.613 51.623 1.00 18.96 ATOM 4716 CB ILE B 276 19.214 58.142 51.475 1.00 19.22 ATOM 4718 CG1 ILE B 276 19.214 58.142 51.475 1.00 19.22 CATOM 4721 CD1 ILE B 276 18.007 60.347 51.022 1.00 17.60 ATOM 4725 CG2 ILE B 276 20.450 58.409 50.592 1.00 19.31 ATOM 4729 C ILE B 276 20.450 58.409 50.592 1.00 19.31 CATOM 4730 O ILE B 276 20.620 55.113 50.901 1.00 20.42 ATOM 4731 N ILE B 277 20.919 56.016 52.918 1.00 20.23	<b>ATOM</b>			C
ATOM 4692 CD1 LEU B 274 18.910 56.182 60.858 1.00 21.07 ATOM 4696 CD2 LEU B 274 20.825 57.222 59.575 1.00 21.28 ATOM 4700 C LEU B 274 18.811 55.611 55.880 1.00 17.93 ATOM 4701 O LEU B 274 19.575 54.755 55.458 1.00 17.46 ATOM 4702 N ALA B 275 17.562 55.768 55.431 1.00 17.83 N ATOM 4704 CA ALA B 275 16.987 54.924 54.386 1.00 17.37 ATOM 4706 CB ALA B 275 15.553 55.269 54.142 1.00 16.76 ATOM 4710 C ALA B 275 15.553 55.269 54.142 1.00 16.76 ATOM 4711 O ALA B 275 18.088 54.097 52.466 1.00 18.14 ATOM 4712 N ILE B 276 18.107 56.330 52.770 1.00 18.68 N ATOM 4714 CA ILE B 276 18.945 56.613 51.623 1.00 18.96 ATOM 4716 CB ILE B 276 19.214 58.142 51.475 1.00 19.22 ATOM 4718 CG1 ILE B 276 19.214 58.142 51.475 1.00 19.22 CATOM 4721 CD1 ILE B 276 18.007 60.347 51.022 1.00 17.60 ATOM 4725 CG2 ILE B 276 20.450 58.409 50.592 1.00 19.31 ATOM 4729 C ILE B 276 20.450 58.409 50.592 1.00 19.31 CATOM 4730 O ILE B 276 20.620 55.113 50.901 1.00 20.42 ATOM 4731 N ILE B 277 20.919 56.016 52.918 1.00 20.23	<b>ATOM</b>	4690 CG LEUB 274	19.333 56.898 59.559 1.00 20.02	C
ATOM 4700 C LEUB 274 18.811 55.611 55.880 1.00 17.93 C ATOM 4701 O LEUB 274 19.575 54.755 55.458 1.00 17.46 O ATOM 4702 N ALAB 275 17.562 55.768 55.431 1.00 17.83 N ATOM 4704 CA ALAB 275 16.987 54.924 54.386 1.00 17.37 C ATOM 4706 CB ALAB 275 15.553 55.269 54.142 1.00 16.76 C ATOM 4710 C ALAB 275 17.778 55.084 53.118 1.00 18.01 C ATOM 4711 O ALAB 275 18.088 54.097 52.466 1.00 18.14 O ATOM 4712 N ILEB 276 18.107 56.330 52.770 1.00 18.68 N ATOM 4714 CA ILEB 276 18.945 56.613 51.623 1.00 18.96 C ATOM 4716 CB ILEB 276 19.214 58.142 51.475 1.00 19.22 C ATOM 4718 CG1 ILEB 276 17.991 58.845 50.882 1.00 18.43 C ATOM 4721 CD1 ILEB 276 18.007 60.347 51.022 1.00 17.60 C ATOM 4729 C ILEB 276 20.450 58.409 50.592 1.00 19.31 C ATOM 4730 O ILEB 276 20.620 55.113 50.901 1.00 20.42 O ATOM 4731 N ILEB 277 20.919 56.016 52.918 1.00 20.23	<b>ATOM</b>	4692 CD1 LEU B 274	18.910 56.182 60.858 1.00 21.07	C
ATOM 4701 O LEU B 274 19.575 54.755 55.458 1.00 17.46 ATOM 4702 N ALA B 275 17.562 55.768 55.431 1.00 17.83 N ATOM 4704 CA ALA B 275 16.987 54.924 54.386 1.00 17.37 C ATOM 4706 CB ALA B 275 15.553 55.269 54.142 1.00 16.76 C ATOM 4710 C ALA B 275 17.778 55.084 53.118 1.00 18.01 C ATOM 4711 O ALA B 275 18.088 54.097 52.466 1.00 18.14 O ATOM 4712 N ILE B 276 18.107 56.330 52.770 1.00 18.68 N ATOM 4714 CA ILE B 276 18.945 56.613 51.623 1.00 18.96 C ATOM 4716 CB ILE B 276 19.214 58.142 51.475 1.00 19.22 C ATOM 4718 CG1 ILE B 276 17.991 58.845 50.882 1.00 18.43 C ATOM 4721 CD1 ILE B 276 18.007 60.347 51.022 1.00 17.60 C ATOM 4725 CG2 ILE B 276 20.450 58.409 50.592 1.00 19.31 C ATOM 4729 C ILE B 276 20.450 58.409 50.592 1.00 19.31 C ATOM 4730 O ILE B 276 20.620 55.113 50.901 1.00 20.42 O ATOM 4731 N ILE B 277 20.919 56.016 52.918 1.00 20.23	<b>ATOM</b>	4696 CD2 LEU B 274	20.825 57.222 59.575 1.00 21.28	C
ATOM 4702 N ALAB 275 17.562 55.768 55.431 1.00 17.83 N ATOM 4704 CA ALAB 275 16.987 54.924 54.386 1.00 17.37 C ATOM 4706 CB ALAB 275 15.553 55.269 54.142 1.00 16.76 C ATOM 4710 C ALAB 275 17.778 55.084 53.118 1.00 18.01 C ATOM 4711 O ALAB 275 18.088 54.097 52.466 1.00 18.14 O ATOM 4712 N ILEB 276 18.107 56.330 52.770 1.00 18.68 N ATOM 4714 CA ILEB 276 18.945 56.613 51.623 1.00 18.96 C ATOM 4716 CB ILEB 276 19.214 58.142 51.475 1.00 19.22 C ATOM 4718 CG1 ILEB 276 17.991 58.845 50.882 1.00 18.43 C ATOM 4721 CD1 ILEB 276 18.007 60.347 51.022 1.00 17.60 C ATOM 4725 CG2 ILEB 276 20.450 58.409 50.592 1.00 19.31 C ATOM 4730 O ILEB 276 20.620 55.113 50.901 1.00 20.42 O ATOM 4731 N ILEB 277 20.919 56.016 52.918 1.00 20.23	<b>ATOM</b>	4700 C LEUB 274	18.811 55.611 55.880 1.00 17.93	C
ATOM 4704 CA ALAB 275 16.987 54.924 54.386 1.00 17.37 CATOM 4706 CB ALAB 275 15.553 55.269 54.142 1.00 16.76 CATOM 4710 C ALAB 275 17.778 55.084 53.118 1.00 18.01 CATOM 4711 O ALAB 275 18.088 54.097 52.466 1.00 18.14 OATOM 4712 N ILEB 276 18.107 56.330 52.770 1.00 18.68 NATOM 4714 CA ILEB 276 18.945 56.613 51.623 1.00 18.96 CATOM 4716 CB ILEB 276 19.214 58.142 51.475 1.00 19.22 CATOM 4718 CG1 ILEB 276 17.991 58.845 50.882 1.00 18.43 CATOM 4721 CD1 ILEB 276 18.007 60.347 51.022 1.00 17.60 CATOM 4725 CG2 ILEB 276 20.450 58.409 50.592 1.00 19.31 CATOM 4729 C ILEB 276 20.450 58.409 50.592 1.00 19.31 CATOM 4730 O ILEB 276 20.620 55.113 50.901 1.00 20.42 OATOM 4731 N ILEB 277 20.919 56.016 52.918 1.00 20.23	<b>ATOM</b>	4701 O LEUB 274	19.575 54.755 55.458 1.00 17.46	Ο
ATOM 4706 CB ALAB 275 15.553 55.269 54.142 1.00 16.76 C ATOM 4710 C ALAB 275 17.778 55.084 53.118 1.00 18.01 C ATOM 4711 O ALAB 275 18.088 54.097 52.466 1.00 18.14 O ATOM 4712 N ILEB 276 18.107 56.330 52.770 1.00 18.68 N ATOM 4714 CA ILEB 276 18.945 56.613 51.623 1.00 18.96 C ATOM 4716 CB ILEB 276 19.214 58.142 51.475 1.00 19.22 C ATOM 4718 CG1 ILEB 276 17.991 58.845 50.882 1.00 18.43 C ATOM 4721 CD1 ILEB 276 18.007 60.347 51.022 1.00 17.60 C ATOM 4725 CG2 ILEB 276 20.450 58.409 50.592 1.00 19.31 C ATOM 4729 C ILEB 276 20.620 55.113 50.901 1.00 20.42 O ATOM 4731 N ILEB 277 20.919 56.016 52.918 1.00 20.23	<b>ATOM</b>	4702 N ALA B 275	17.562 55.768 55.431 1.00 17.83	N
ATOM 4706 CB ALAB 275 15.553 55.269 54.142 1.00 16.76 C ATOM 4710 C ALAB 275 17.778 55.084 53.118 1.00 18.01 C ATOM 4711 O ALAB 275 18.088 54.097 52.466 1.00 18.14 O ATOM 4712 N ILEB 276 18.107 56.330 52.770 1.00 18.68 N ATOM 4714 CA ILEB 276 18.945 56.613 51.623 1.00 18.96 C ATOM 4716 CB ILEB 276 19.214 58.142 51.475 1.00 19.22 C ATOM 4718 CG1 ILEB 276 17.991 58.845 50.882 1.00 18.43 C ATOM 4721 CD1 ILEB 276 18.007 60.347 51.022 1.00 17.60 C ATOM 4725 CG2 ILEB 276 20.450 58.409 50.592 1.00 19.31 C ATOM 4729 C ILEB 276 20.620 55.113 50.901 1.00 20.42 O ATOM 4731 N ILEB 277 20.919 56.016 52.918 1.00 20.23	<b>ATOM</b>	4704 CA ALA B 275	16.987 54.924 54.386 1.00 17.37	C
ATOM 4711 O ALAB 275 18.088 54.097 52.466 1.00 18.14 O ATOM 4712 N ILEB 276 18.107 56.330 52.770 1.00 18.68 N ATOM 4714 CA ILEB 276 18.945 56.613 51.623 1.00 18.96 C ATOM 4716 CB ILEB 276 19.214 58.142 51.475 1.00 19.22 C ATOM 4718 CG1 ILEB 276 17.991 58.845 50.882 1.00 18.43 C ATOM 4721 CD1 ILEB 276 18.007 60.347 51.022 1.00 17.60 C ATOM 4725 CG2 ILEB 276 20.450 58.409 50.592 1.00 19.31 C ATOM 4729 C ILEB 276 20.244 55.857 51.784 1.00 19.67 C ATOM 4730 O ILEB 276 20.620 55.113 50.901 1.00 20.42 O ATOM 4731 N ILEB 277 20.919 56.016 52.918 1.00 20.23				C
ATOM 4712 N ILE B 276 18.107 56.330 52.770 1.00 18.68 N ATOM 4714 CA ILE B 276 18.945 56.613 51.623 1.00 18.96 C ATOM 4716 CB ILE B 276 19.214 58.142 51.475 1.00 19.22 C ATOM 4718 CG1 ILE B 276 17.991 58.845 50.882 1.00 18.43 C ATOM 4721 CD1 ILE B 276 18.007 60.347 51.022 1.00 17.60 C ATOM 4725 CG2 ILE B 276 20.450 58.409 50.592 1.00 19.31 C ATOM 4729 C ILE B 276 20.244 55.857 51.784 1.00 19.67 C ATOM 4730 O ILE B 276 20.620 55.113 50.901 1.00 20.42 O ATOM 4731 N ILE B 277 20.919 56.016 52.918 1.00 20.23	<b>ATOM</b>	4710 C ALA B 275	17.778 55.084 53.118 1.00 18.01	С
ATOM 4714 CA ILE B 276 18.945 56.613 51.623 1.00 18.96 C ATOM 4716 CB ILE B 276 19.214 58.142 51.475 1.00 19.22 C ATOM 4718 CG1 ILE B 276 17.991 58.845 50.882 1.00 18.43 C ATOM 4721 CD1 ILE B 276 18.007 60.347 51.022 1.00 17.60 C ATOM 4725 CG2 ILE B 276 20.450 58.409 50.592 1.00 19.31 C ATOM 4729 C ILE B 276 20.244 55.857 51.784 1.00 19.67 C ATOM 4730 O ILE B 276 20.620 55.113 50.901 1.00 20.42 O ATOM 4731 N ILE B 277 20.919 56.016 52.918 1.00 20.23 N	ATOM	4711 O ALA B 275	18.088 54.097 52.466 1.00 18.14	О
ATOM 4716 CB ILE B 276 19.214 58.142 51.475 1.00 19.22 C ATOM 4718 CG1 ILE B 276 17.991 58.845 50.882 1.00 18.43 C ATOM 4721 CD1 ILE B 276 18.007 60.347 51.022 1.00 17.60 C ATOM 4725 CG2 ILE B 276 20.450 58.409 50.592 1.00 19.31 C ATOM 4729 C ILE B 276 20.244 55.857 51.784 1.00 19.67 C ATOM 4730 O ILE B 276 20.620 55.113 50.901 1.00 20.42 O ATOM 4731 N ILE B 277 20.919 56.016 52.918 1.00 20.23 N	<b>ATOM</b>	4712 N ILE B 276	18.107 56.330 52.770 1.00 18.68	N
ATOM 4718 CG1 ILE B 276 17.991 58.845 50.882 1.00 18.43 C ATOM 4721 CD1 ILE B 276 18.007 60.347 51.022 1.00 17.60 C ATOM 4725 CG2 ILE B 276 20.450 58.409 50.592 1.00 19.31 C ATOM 4729 C ILE B 276 20.244 55.857 51.784 1.00 19.67 C ATOM 4730 O ILE B 276 20.620 55.113 50.901 1.00 20.42 O ATOM 4731 N ILE B 277 20.919 56.016 52.918 1.00 20.23 N	<b>ATOM</b>	4714 CA ILE B 276	18.945 56.613 51.623 1.00 18.96	C
ATOM 4721 CD1 ILE B 276 18.007 60.347 51.022 1.00 17.60 C ATOM 4725 CG2 ILE B 276 20.450 58.409 50.592 1.00 19.31 C ATOM 4729 C ILE B 276 20.244 55.857 51.784 1.00 19.67 C ATOM 4730 O ILE B 276 20.620 55.113 50.901 1.00 20.42 O ATOM 4731 N ILE B 277 20.919 56.016 52.918 1.00 20.23 N	<b>ATOM</b>	4716 CB ILE B 276	19.214 58.142 51.475 1.00 19.22	C
ATOM 4725 CG2 ILE B 276 20.450 58.409 50.592 1.00 19.31 C ATOM 4729 C ILE B 276 20.244 55.857 51.784 1.00 19.67 C ATOM 4730 O ILE B 276 20.620 55.113 50.901 1.00 20.42 O ATOM 4731 N ILE B 277 20.919 56.016 52.918 1.00 20.23 N	<b>ATOM</b>	4718 CG1 ILE B 276	17.991 58.845 50.882 1.00 18.43	C
ATOM 4729 C ILE B 276 20.244 55.857 51.784 1.00 19.67 C ATOM 4730 O ILE B 276 20.620 55.113 50.901 1.00 20.42 O ATOM 4731 N ILE B 277 20.919 56.016 52.918 1.00 20.23 N	<b>ATOM</b>	4721 CD1 ILE B 276	18.007 60.347 51.022 1.00 17.60	С
ATOM 4730 O ILE B 276 20.620 55.113 50.901 1.00 20.42 O ATOM 4731 N ILE B 277 20.919 56.016 52.918 1.00 20.23 N			20.450 58.409 50.592 1.00 19.31	C
ATOM 4731 N ILE B 277 20.919 56.016 52.918 1.00 20.23 N	ATOM	4729 C ILE B 276		C
				Ο
ATOM 4733 CA ILE B 277 22.206 55.341 53.135 1.00 20.68 C	ATOM	4731 N ILE B 277		N
	ATOM	4733 CA ILE B 277	22.206 55.341 53.135 1.00 20.68	C

ATOM	4735	CB ILE B 277	22.748 55.641 54.560 1.00 20.48	$\mathbf{C}$
			23.202 57.085 54.641 1.00 20.58	С
			23.112 57.656 56.037 1.00 21.64	С
		CG2 ILE B 277		C
ATOM			22.064 53.836 52.885 1.00 21.24	C
ATOM	4749		22.933 53.218 52.296 1.00 21.33	0
ATOM	4750		20.948 53.264 53.312 1.00 22.00	N
ATOM		<b>CA SER B 278</b>	20.710 51.835 53.182 1.00 22.97	C
ATOM			19.534 51.411 54.085 1.00 23.45	C
ATOM			19.807 50.198 54.786 1.00 26.12	0
ATOM	4759	C SER B 278	20.472 51.437 51.709 1.00 22.73	C
ATOM	4760	O SER B 278	20.951 50.399 51.241 1.00 22.40	O
ATOM	4761	N VAL B 279	19.751 52.277 50.979 1.00 22.57	N
ATOM	4763	CA VAL B 279	19.488 52.021 49.573 1.00 22.50	C
ATOM	4765	CB VAL B 279	18.607 53.116 48.929 1.00 22.38	C
ATOM	4767	CG1 VAL B 279	18.448 52.853 47.461 1.00 21.66	C
ATOM	4771	CG2 VAL B 279	17.214 53.181 49.587 1.00 22.01	C
ATOM	4775	C VAL B 279	20.811 51.942 48.829 1.00 22.93	C
ATOM	4776	O VAL B 279	21.018 51.066 48.020 1.00 23.53	0
ATOM	4777	N GLN B 280	21.719 52.854 49.118 1.00 23.29	N
ATOM	4779	CA GLN B 280	23.000 52.877 48.448 1.00 23.37	С
ATOM	4781	CB GLN B 280	23.704 54.221 48.665 1.00 23.57	C
ATOM	4784	CG GLN B 280	22.869 55.415 48.141 1.00 25.84	C
ATOM	4787	CD GLN B 280	23.391 56.815 48.571 1.00 30.13	C
ATOM	4788	OE1 GLN B 280	23.752 57.035 49.747 1.00 32.29	C
ATOM	4789	NE2 GLN B 280	23.406 57.766 47.620 1.00 30.97	N
ATOM	4792	C GLN B 280	23.850 51.686 48.887 1.00 23.22	C
ATOM	4793	O GLN B 280	24.576 51.160 48.066 1.00 23.71	0
ATOM	4794	N GLU B 281	23.756 51.245 50.146 1.00 23.05	N
ATOM	4796	CA GLU B 281	24.459 50.031 50.609 1.00 23.19	С
ATOM	4798	CB GLUB 281	24.302 49.865 52.125 1.00 23.69	C
ATOM	4801	CG GLU B 281	25.233 50.720 52.963 1.00 27.14	C
ATOM	4804	CD GLUB 281	25.101 50.516 54.491 1.00 31.62	C
ATOM			24.386 49.589 54.988 1.00 33.36	C
ATOM		OE2 GLU B 281	25.735 51.323 55.212 1.00 34.33	C
ATOM	4807	C GLU B 281	23.932 48.741 49.928 1.00 22.41	C
ATOM	4808		24.666 47.794 49.682 1.00 21.37	0
ATOM			22.636 48.715 49.655 1.00 21.99	N
ATOM			22.018 47.576 49.041 1.00 21.73	C
ATOM	4813	CB ILE B 282	20.518 47.612 49.272 1.00 21.40	C
ATOM		CG1 ILE B 282	20.200 47.370 50.747 1.00 20.60	С
ATOM		CD1 ILE B 282	18.743 47.703 51.106 1.00 20.68	С
ATOM		CG2 ILE B 282	19.849 46.556 48.433 1.00 21.56	С
			22.356 47.550 47.543 1.00 21.93	С
ATOM			22.505 46.473 46.962 1.00 22.72	0
ATOM		N VALB 283	22.486 48.715 46.919 1.00 21.41	N
ATOM		CA VALB 283	22.930 48.769 45.539 1.00 21.34	C
ATOM	4832	CB VALB 283	22.949 50.210 44.985 1.00 21.18	C

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ATOM	4834	CG1 VAL B 283	23.718 50.294 43.702 1.00 21.22	С
<b>ATOM</b>	4838	CG2 VAL B 283	21.549 50.693 44.747 1.00 21.12	C
ATOM	4842	C VAL B 283	24.311 48.160 45.478 1.00 21.51	C
ATOM	4843	O VAL B 283	24.513 47.153 44.831 1.00 21.40	Ο
ATOM	4844	N ASP B 284	25.244 48.783 46.196 1.00 22.34	N
	4846	CA ASP B 284	26.652 48.375 46.304 1.00 22.25	C
		CB ASP B 284	27.385 49.244 47.360 1.00 22.76	C
		CG ASP B 284	27.596 50.726 46.915 1.00 25.07	C
		OD1 ASP B 284	28.189 51.505 47.712 1.00 27.18	Ο
			27.214 51.208 45.809 1.00 28.63	Ο
		C ASP B 284	26.788 46.890 46.638 1.00 21.52	С
		O ASP B 284	27.562 46.213 46.021 1.00 21.44	0
		N PHE B 285	26.010 46.386 47.586 1.00 21.54	Ń
		CA PHE B 285	26.003 44.958 47.926 1.00 21.74	С
ATOM	4860	CB PHE B 285	25.005 44.667 49.037 1.00 21.35	С
ATOM	4863	CG PHE B 285	25.024 43.247 49.502 1.00 20.54	C
ATOM	4864	CD1 PHE B 285	26.159 42.711 50.069 1.00 20.53	C
ATOM	4866	CE1 PHE B 285	26.185 41.370 50.501 1.00 20.89	С
ATOM	4868	CZ PHE B 285	25.076 40.578 50.366 1.00 19.86	C
ATOM	4870	CE2 PHE B 285	23.929 41.115 49.811 1.00 20.65	C
<b>ATOM</b>	4872	CD2 PHE B 285	23.908 42.439 49.374 1.00 20.26	С
<b>ATOM</b>	4874	C PHE B 285	25.649 44.053 46.750 1.00 22.43	C
ATOM	4875	O PHE B 285	26.387 43.118 46.441 1.00 22.74	О
ATOM	4876	N ALA B 286	24.506 44.322 46.125 1.00 22.65	N
<b>ATOM</b>	4878	CA ALA B 286	24.016 43.536 45.005 1.00 22.80	C
ATOM	4880	CB ALA B 286	22.704 44.102 44.525 1.00 22.88	С
ATOM	4884	C ALA B 286	25.016 43.463 43.865 1.00 23.08	С
ATOM		O ALA B 286	25.214 42.411 43.264 1.00 22.81	О
		N LYS B 287	25.685 44.568 43.596 1.00 23.87	N
		CA LYS B 287	26.652 44.602 42.517 1.00 25.11	С
		CB LYS B 287	27.226 46.003 42.344 1.00 25.42	С
ATOM		CG LYS B 287	26.187 46.971 41.748 1.00 28.28	С
ATOM		CD LYS B 287	26.832 48.165 41.063 1.00 31.35	С
ATOM	4899	CE LYS B 287	25.897 49.377 40.980 1.00 32.96	С
ATOM		NZ LYS B 287	26.647 50.645 41.304 1.00 32.73	N
ATOM		C LYS B 287	27.760 43.590 42.722 1.00 25.44	C
		O LYS B 287	28.361 43.137 41.752 1.00 26.61	O
		N GLN B 288	28.022 43.224 43.970 1.00 25.27	N
		CA GLN B 288	29.029 42.219 44.288 1.00 25.25	C
		CB GLN B 288	29.717 42.573 45.589 1.00 25.77	C
		CG GLN B 288	29.935 44.035 45.776 1.00 27.24	C
		CD GLN B 288	31.158 44.290 46.532 1.00 29.33	C
		OE1 GLN B 288	32.196 44.483 45.934 1.00 35.09	0
		NE2 GLN B 288	31.075 44.259 47.853 1.00 29.00	N
		C GLN B 288	28.503 40.805 44.434 1.00 24.86	C
		O GLN B 288	29.283 39.891 44.558 1.00 24.91	0
		N VALB 289	27.195 40.610 44.467 1.00 24.74	N
AIOM	4927	CA VAL B 289	26.660 39.267 44.486 1.00 24.58	С

ATOM	4929	CB VALB 289	25.162 39.251 44.811 1.00 24.53	С
ATOM	4931	CG1 VAL B 289	24.634 37.835 44.812 1.00 24.69	C
ATOM	4935	CG2 VAL B 289	24.921 39.868 46.156 1.00 23.93	C
ATOM	4939	C VAL B 289	26.929 38.717 43.094 1.00 24.83	С
ATOM	4940	O VAL B 289	26.472 39.300 42.122 1.00 25.10	Ο
ATOM	4941	N PROB 290	27.678 37.620 42.992 1.00 24.94	N
ATOM	4942	CA PROB 290	28.052 37.045 41.695 1.00 24.44	С
ATOM	4944	CB PRO B 290	28.777 35.746 42.062 1.00 24.45	C
ATOM	4947	CG PROB 290	29.202 35.917 43.425 1.00 25.44	С
ATOM	4950	CD PROB 290	28.174 36.803 44.112 1.00 25.43	С
ATOM	4953	C PRO B 290	26.825 36.690 40.884 1.00 24.08	C
ATOM	4954	O PRO B 290	25.905 36.024 41.437 1.00 23.85	О
ATOM	4955	N GLY B 291	26.833 37.116 39.612 1.00 23.44	N
ATOM	4957	CA GLY B 291	25.735 36.879 38.694 1.00 23.44	С
ATOM	4960	C GLY B 291	24.833 38.077 38.450 1.00 23.12	C
ATOM	4961	O GLY B 291	24.359 38.280 37.328 1.00 23.38	O
ATOM	4962	N PHE B 292	24.613 38.865 39.502 1.00 22.38	N
ATOM		CA PHE B 292	23.731 40.039 39.480 1.00 21.36	C
ATOM	4966	CB PHE B 292	23.776 40.776 40.851 1.00 20.83	C
ATOM	4969	CG PHE B 292		С
ATOM			21.476 41.554 41.391 1.00 17.24	С
		CE1 PHE B 292	20.506 42.530 41.450 1.00 17.80	C
		CZ PHE B 292	20.809 43.828 41.072 1.00 17.38	C
ATOM	4976	CE2 PHE B 292	22.078 44.131 40.657 1.00 16.22	С
ATOM		CD2 PHE B 292	23.020 43.154 40.591 1.00 16.61	С
ATOM	4980	C PHE B 292	23.986 41.031 38.304 1.00 21.31	C
ATOM	4981	O PHE B 292	23.072 41.350 37.526 1.00 20.13	О
ATOM	4982	N LEU B 293	25.219 41.508 38.186 1.00 21.18	Ν
<b>ATOM</b>	4984	CA LEUB 293	25.568 42.430 37.111 1.00 21.76	С
ATOM	4986	CB LEU B 293	27.022 42.927 37.264 1.00 21.82	С
ATOM	4989	CG LEU B 293	27.303 43.908 38.421 1.00 22.75	С
ATOM	4991	CD1 LEU B 293	28.745 44.210 38.488 1.00 22.25	C
ATOM		CD2 LEU B 293	26.506 45.225 38.324 1.00 24.06	С
ATOM		C LEU B 293	25.341 41.853 35.687 1.00 21.89	С
		O LEU B 293	25.247 42.629 34.722 1.00 22.16	О
		N GLN B 294	25.257 40.519 35.553 1.00 21.83	N
		CA GLN B 294	25.055 39.871 34.241 1.00 21.53	С
		CB GLN B 294	25.824 38.545 34.149 1.00 22.04	С
		CG GLN B 294	27.313 38.716 33.899 1.00 22.88	С
		CD GLN B 294	28.025 39.240 35.129 1.00 24.99	С
		OE1 GLN B 294	27.859 38.682 36.221 1.00 27.10	О
ATOM	5013	NE2 GLN B 294	28.787 40.333 34.974 1.00 25.18	N
ATOM		C GLN B 294	23.570 39.685 33.869 1.00 20.64	С
ATOM	5017	O GLN B 294	23.257 39.291 32.760 1.00 20.25	О
ATOM		N LEU B 295	22.671 39.985 34.798 1.00 19.78	N
		CA LEU B 295	21.258 40.109 34.485 1.00 19.15	С
		CB LEUB 295	20.419 40.160 35.768 1.00 18.87	C
ATOM	5025	CG LEU B 295	20.556 38.976 36.727 1.00 18.40	С

5027	CD1 LEU B 295	19.715 39.168 38.003 1.00 17.43	С
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		17.594 45.347 40.075 1.00 16.44	O
		17.379 46.489 38.147 1.00 16.69	N
		16.582 47.549 38.751 1.00 17.30	С
		16.212 48.604 37.713 1.00 17.31	C
	5031 5035 5036 5037 5039 5042 5043 5044 5046 5048 5051 5054 5057 5059 5060 5063 5066 5067 5072 5078 5079 5080 5081 5082 5083 5085 5087 5090 5091 5092 5093 5094 5095 5097 5099 5090 5091 5095 5097 5099 5099 5099 5099 5099 5099	5031 CD2 LEU B 295 5035 C LEU B 295 5036 O LEU B 295 5037 N GLY B 296 5039 CA GLY B 296 5042 C GLY B 296 5043 O GLY B 296 5044 N ARG B 297 5046 CA ARG B 297 5048 CB ARG B 297 5051 CG ARG B 297 5054 CD ARG B 297 5057 NE ARG B 297 5059 CZ ARG B 297 5060 NH1 ARG B 297 5060 NH1 ARG B 297 5063 NH2 ARG B 297 5066 C ARG B 297 5068 N GLU B 298 5070 CA GLU B 298 5070 CA GLU B 298 5070 CA GLU B 298 5075 CG GLU B 298 5075 CG GLU B 298 5076 CD GLU B 298 5079 OE1 GLU B 298 5080 OE2 GLU B 298 5081 C GLU B 298 5082 O GLU B 298 5083 N ASP B 299 5085 CA ASP B 299 5087 CB ASP B 299	5035 C LEU B 295         21.079 41.397 33.705 1.00 19.02           5036 O LEU B 295         21.824 42.353 33.912 1.00 19.01           5037 N GLY B 296         19.738 42.676 32.149 1.00 18.89           5042 C GLY B 296         19.738 42.676 32.149 1.00 18.89           5043 O GLY B 296         19.520 43.804 33.148 1.00 18.89           5044 N ARG B 297         19.967 44.997 32.797 1.00 19.04           5048 CB ARG B 297         20.503 47.381 33.145 1.00 20.40           5051 CG ARG B 297         20.503 47.381 33.145 1.00 20.40           5054 CD ARG B 297         20.503 47.381 33.145 1.00 25.47           5055 CA ARG B 297         20.706 48.509 34.209 1.00 25.47           5056 CD ARG B 297         21.667 49.639 33.716 1.00 32.84           5059 CZ ARG B 297         21.667 49.639 33.716 1.00 32.84           5060 NH1 ARG B 297         21.667 49.639 33.716 1.00 37.15           5063 NH2 ARG B 297         15.663 34.643 1.00 40.07           5066 C ARG B 297         15.645 34.067 1.00 41.83           5072 CB GLU B 298         16.095 46.149 33.822 1.00 18.56           5072 CB GLU B 298         15.140 46.397 32.633 1.00 16.30           5075 CG GLU B 298         15.308 47.616 31.754 1.00 15.30           5081 C GLU B 298         15.308 47.616 31.754 1.00 15.32           5085 CA ASP B 299         15.669 45.459 34.917 1.00 15.45

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ATOM	5118	CG1 ILE B 301	17.386 49.547 37.487 1.00 18.26	С
ATOM	5121	CD1 ILE B 301	17.252 50.424 36.211 1.00 18.99	С
ATOM	5125	CG2 ILE B 301	15.010 49.390 38.158 1.00 17.43	С
<b>ATOM</b>	5129	C ILE B 301	15.314 46.991 39.389 1.00 17.65	C
ATOM	5130	O ILE B 301	14.943 47.392 40.474 1.00 18.77	O
ATOM	5131	N ALA B 302	14.653 46.069 38.718 1.00 17.35	N
ATOM	5133	CA ALA B 302	13.410 45.554 39.208 1.00 17.68	C
			12.670 44.722 38.070 1.00 17.98	С
			13.638 44.702 40.463 1.00 18.37	C
			12.785 44.672 41.359 1.00 18.56	O
ATOM	5141	N LEU B 303	14.763 43.988 40.544 1.00 18.70	N
ATOM	5143	CA LEU B 303	15.010 43.181 41.743 1.00 19.16	C
			16.131 42.160 41.550 1.00 18.94	С
			15.921 41.116 40.456 1.00 19.63	C
ATOM	5150	CD1 LEU B 303	17.184 40.296 40.243 1.00 19.51	С
			14.704 40.222 40.770 1.00 20.37	C
			15.315 44.089 42.927 1.00 19.53	С
			14.855 43.820 44.029 1.00 19.40	O
			16.067 45.164 42.696 1.00 20.29	N
			16.414 46.076 43.770 1.00 21.41	C
ATOM			17.634 46.895 43.428 1.00 21.75	С
ATOM			18.982 46.131 43.413 1.00 24.86	C
			20.059 46.873 42.548 1.00 25.83	С
			19.577 45.925 44.776 1.00 25.83	С
		C LEU B 304		С
		O LEU B 304		0
			14.324 47.362 43.284 1.00 22.09	N
			13.119 48.093 43.698 1.00 22.86	С
			12.230 48.461 42.517 1.00 23.46	C
			12.565 49.779 41.914 1.00 27.72	С
		CD LYS B 305		С
		CE LYS B 305		С
			11.003 52.390 39.507 1.00 35.51	N
			12.253 47.312 44.692 1.00 22.71	С
		O LYS B 305		Ο
		N ALA B 306	12.176 46.011 44,509 1.00 22.44	N
		CA ALAB 306	11.287 45.195 45.294 1.00 21.84	С
		CB ALA B 306	10.852 44.021 44.489 1.00 21.78	C
		C ALA B 306	11.985 44.734 46.574 1.00 21.85	С
		O ALA B 306	11.387 44.778 47.648 1.00 21.97	O
ATOM		N SER B 307	13.245 44.298 46.464 1.00 21.25	N
		CA SER B 307	13.925 43.658 47.592 1.00 20.58	С
		CB SER B 307	15.040 42.740 47.110 1.00 19.92	С
		OG SER B 307	15.948 43.478 46.369 1.00 21.56	0
		C SER B 307	14.491 44.664 48.592 1.00 20.10	С
<b>ATOM</b>			14.849 44.277 49.686 1.00 20.12	0
		N THR B 308	14.550 45.947 48.233 1.00 19.53	N
		CA THR B 308	15.229 46.952 49.060 1.00 18.86	C

<b>ATOM</b>	5226	CB THR B 308	15.309 48.319 48.323 1.00 18.63 16.445 48.318 47.466 1.00 16.35	С
<b>ATOM</b>	5228	OG1 THR B 308	16.445 48.318 47.466 1.00 16.35	О
ATOM	5230	<b>CG2 THR B 308</b>	15.592 49.455 49.275 1.00 18.82	С
ATOM	5234	C THR B 308	14.612 47.099 50.456 1.00 18.81	С
ATOM	5235	O THR B 308	15.308 46.991 51.470 1.00 19.34	О
ATOM	5236	N ILE B 309	13.318 47.340 50.512 1.00 18.64	N
ATOM	5238	CA ILE B 309	12.636 47.468 51.791 1.00 18.62	C
ATOM	5240	CB ILE B 309	11.142 47.861 51.596 1.00 18.32	С
ATOM	5242	CG1 ILE B 309	10.484 48.168 52.933 1.00 18.77	С
ATOM	5245	CD1 ILE B 309	11.060 49.377 53.632 1.00 20.64	С
ATOM	5249	CG2 ILE B 309	10.368 46.774 50.898 1.00 18.60	С
ATOM			12.820 46.171 52.564 1.00 18.73	С
ATOM			13.185 46.183 53.730 1.00 18.87	O
			12.650 45.045 51.890 1.00 18.92	N
			12.748 43.765 52.577 1.00 19.35	С
ATOM	5259	CB GLUB310	12.283 42.585 51.681 1.00 19.39	С
ATOM	5262	CG GLUB 310	10.846 42.760 51.182 1.00 19.11	C
ATOM	5265	CD GLUB 310	10.846 42.760 51.182 1.00 19.11 10.416 41.734 50.166 1.00 17.06	Č
ATOM	5266	OE1 GLU B 310	10.970 40.632 50.150 1.00 18.95	O
ATOM			9.517 42.049 49.385 1.00 15.70	O
ATOM			14.153 43.556 53.164 1.00 19.28	C
ATOM			14.275 43.145 54.297 1.00 20.06	0
ATOM			15.207 43.841 52.426 1.00 19.11	N
			16.549 43.727 52.981 1.00 19.43	C
ATOM	5274	CB ILE B 311	17.584 44.028 51.873 1.00 19.38	C
			17.584 42.886 50.853 1.00 21.23	С
ATOM			18.328 43.161 49.548 1.00 21.91	С
ATOM			18.974 44.144 52.425 1.00 19.92	С
ATOM		C ILEB311	16.668 44.677 54.216 1.00 19.73	C
ATOM			17.214 44.305 55.261 1.00 19.63	0
ATOM			16.111 45.888 54.106 1.00 19.63	N
ATOM	5291	CA MET B 312	16.140 46.851 55.207 1.00 19.06	C
ATOM	5293	CB MET B 312	15.467 48.164 54.811 1.00 18.57	С
ATOM	5296	CG MET B 312	16.294 49.026 53.923 1.00 19.46	С
ATOM	5299	SD MET B 312	15.294 50.248 53.037 1.00 23.22	S
ATOM		CE MET B 312	15.641 51.542 53.930 1.00 27.05	С
		C MET B 312	15.461 46.264 56.451 1.00 18.73	С
		O MET B 312	15.933 46.461 57.565 1.00 18.21	Ο
		N LEU B 313	14.357 45.546 56.248 1.00 18.54	N
		CA LEUB313	13.606 44.939 57.357 1.00 18.41	С
		CB LEU B 313	12.261 44.396 56.876 1.00 17.85	С
		CG LEUB 313	11.193 45.454 56.757 1.00 18.52	C
		CD1 LEU B 313	10.155 44.996 55.724 1.00 19.77	C
		CD2 LEU B 313	10.548 45.721 58.115 1.00 18.67	C
ATOM		C LEU B 313	14.382 43.816 58.035 1.00 18.44	С
<b>ATOM</b>			14.256 43.619 59.221 1.00 16.86	0
ATOM	5325	N LEU B 314	15.143 43.070 57.238 1.00 19.37	N
ATOM	5327	CA LEUB 314	16.043 42.042 57.722 1.00 20.48	C

			16.708 41.300 56.539 1.00 20.72	С
			16.283 39.877 56.126 1.00 22.28	С
	ATOM	5334 CD1 LEU B 314	15.200 39.194 57.028 1.00 22.02	C
	ATOM	5338 CD2 LEU B 314	15.826 39.912 54.674 1.00 24.01	С
	ATOM	5342 C LEU B 314	17.132 42.690 58.574 1.00 20.74	C
4	ATOM	5343 O LEU B 314	17.544 42.140 59.580 1.00 20.37	0
	ATOM	5344 N GLU B 315	17.581 43.864 58.144 1.00 21.40	N
	ATOM	5346 CA GLU B 315	18.733 44.534 58.729 1.00 21.89	С
	ATOM	5348 CB GLU B 315	19.338 45.547 57.731 1.00 22.24	С
		5351 CG GLU B 315		C
		5354 CD GLU B 315		С
			22.095 45.017 58.310 1.00 31.94	О
			22.056 43.300 57.029 1.00 31.90	О
			18.300 45.192 60.016 1.00 21.60	C
	ATOM		19.024 45.189 61.009 1.00 21.91	О
	ATOM		17.097 45.733 59.984 1.00 21.60	N
	ATOM		16.403 46.195 61.177 1.00 21.80	С
	ATOM		15.031 46.791 60.788 1.00 22.31	С
	ATOM		15.237 47.956 59.981 1.00 23.26	О
	ATOM		14.255 47.346 62.002 1.00 22.77	С
	ATOM	5371 C THR B 316		С
	ATOM		16.609 45.283 63.341 1.00 21.20	О
	ATOM		15.745 43.935 61.824 1.00 21.00	N
	ATOM		15.554 42.836 62.770 1.00 20.86	C
	ATOM		14.841 41.671 62.116 1.00 20.23	С
	ATOM	5381 C ALA B 317		С
	ATOM	5382 O ALA B 317		О
	ATOM		17.903 42.369 62.463 1.00 22.98	N
	ATOM		19.226 41.827 62.796 1.00 24.26	C
	ATOM	5387 CB ARG B 318	20.116 41.839 61.554 1.00 24.61	C
	ATOM	5390 CG ARG B 318	21.565 41.506 61.785 1.00 27.30	С
	ATOM	5393 CD ARG B 318	22.441 41.899 60.624 1.00 31.26	C
	ATOM	5396 NE ARG B 318	23.506 40.917 60.464 1.00 35.50	N
		5398 CZ ARG B 318	23.922 40.419 59.298 1.00 39.04	С
			23.378 40.814 58.141 1.00 40.24	N
			24.899 39.516 59.287 1.00 40.03	N
		5405 C ARG B 318		С
		5406 O ARG B 318		0
		5407 N ARG B 319	19.481 43.923 63.941 1.00 25.45	N
		5409 CA ARG B 319	20.015 44.864 64.915 1.00 26.42	C
		5411 CB ARG B 319	20.334 46.168 64.194 1.00 27.16	С
		5414 CG ARG B 319	21.829 46.223 63.790 1.00 31.66	C
		5417 CD ARG B 319	22.152 47.171 62.655 1.00 36.71	C
		5420 NE ARG B 319	22.671 46.475 61.483 1.00 40.23	N
		5422 CZ ARG B 319	23.531 47.013 60.638 1.00 43.84	C
		5423 NH1 ARG B 319	23.969 48.264 60.829 1.00 45.76	N
		5426 NH2 ARG B 319	23.975 46.303 59.604 1.00 44.34	N
	ATOM	5429 C ARG B 319	19.124 45.106 66.139 1.00 25.53	С

ATOM	5430	O ARG B 319	19.473 45.867 67.026 1.00 26.02	0
			17.994 44.421 66.196 1.00 24.69	N
ATOM			17.080 44.492 67.331 1.00 23.67	С
ATOM		CB TYR B 320		С
ATOM		CG TYR B 320	14.850 43.664 68.179 1.00 22.41	С
ATOM		CD1 TYR B 320		C
ATOM		CE1 TYR B 320		C
ATOM		CZ TYR B 320		C
ATOM		OH TYR B 320		O
ATOM			13.735 42.414 69.925 1.00 23.51	Č
ATOM		CD2 TYR B 320		Č
ATOM		C TYR B 320		C
ATOM	5451			ō
ATOM		N ASN B 321		N
ATOM			18.003 44.149 70.973 1.00 21.53	C
ATOM			19.019 45.211 71.389 1.00 21.58	Č
ATOM			19.546 45.038 72.808 1.00 21.22	Ċ
				O
			20.753 45.527 73.018 1.00 19.82	N
ATOM			16.814 44.048 71.923 1.00 21.27	C `
ATOM			16.111 45.024 72.171 1.00 19.93	Ö
ATOM		N HIS B 322		N
ATOM			15.390 42.538 73.194 1.00 21.93	C
ATOM			15.038 41.042 73.048 1.00 22.03	Č
ATOM			13.659 40.684 73.529 1.00 22.23	Č
ATOM			12.533 41.407 73.188 1.00 21.02	N
		CE1 HIS B 322		C
		NE2 HIS B 322	11.872 39.810 74.456 1.00 21.62	N
ATOM		CD2 HIS B 322	13.233 39.681 74.336 1.00 21.10	C
ATOM				C
ATOM	5482 5483			0
ATOM			16.708 43.279 75.127 1.00 22.24	N
ATOM	5484			
ATOM			16.858 43.883 76.452 1.00 23.45 18.324 44.065 76.840 1.00 24.19	C
ATOM				C C
ATOM		CG GLUB 323	19.113 42.867 77.348 1.00 26.76	
		CD GLUB 323	20.561 43.291 77.602 1.00 30.16	C
		OE1 GLU B 323	21.284 43.480 76.576 1.00 31.88	0
		OE2 GLU B 323	20.948 43.500 78.797 1.00 30.01	0
ATOM		C GLUB 323	16.234 45.280 76.497 1.00 23.08	C
ATOM	5498		15.527 45.616 77.451 1.00 23.13	0
ATOM	5499		16.547 46.085 75.474 1.00 22.66	N
		CA THR B 324	16.163 47.498 75.392 1.00 21.95	C
		CB THR B 324	17.344 48.329 74.827 1.00 21.80	C
		OG1 THR B 324		0
		CG2 THR B 324		C
ATOM	5511		14.920 47.715 74.514 1.00 21.94	C
ATOM	5512		14.306 48.787 74.536 1.00 21.72	0
ATOM	5513	N GLU B 325	14.554 46.685 73.756 1.00 22.08	N

ATOM	5515 CA GLU B 325	13.502 46.756 72.736 1.00 22.38	С
ATOM	5517 CB GLU B 325	12.116 46.851 73.401 1.00 22.40	C
ATOM	5520 CG GLU B 325		С
ATOM	5523 CD GLU B 325		С
ATOM	5524 OE1 GLU B 325		О
ATOM	5525 OE2 GLU B 325	-	0
ATOM	5526 C GLU B 325		C
ATOM	5527 O GLU B 325	12.936 48.611 71.302 1.00 21.35	0
	5528 N CYS B 326		N
ATOM	5530 CA CYS B 326	15.511 48.981 70.405 1.00 23.87	C
ATOM	5532 CB CYS B 326	16.413 49.983 71.132 1.00 23.67	Č
ATOM		15.550 51.068 72.285 1.00 21.30	S
ATOM		16.286 48.416 69.240 1.00 25.69	Č
ATOM		17.039 47.443 69.379 1.00 26.02	Ö
		16.126 49.093 68.106 1.00 27.55	N
		16.757 48.752 66.845 1.00 28.95	Ċ
		15.708 48.907 65.725 1.00 28.96	Č
		15.026 47.557 65.493 1.00 29.19	C
ATOM		13.599 47.545 65.870 1.00 29.18	Č
		16.303 49.455 64.451 1.00 28.76	Č
ATOM ATOM	5555 C ILE B 327	17.955 49.657 66.619 1.00 30.54	c
ATOM	5556 O ILE B 327		Ö
		19.056 49.049 66.197 1.00 32.63	N
ATOM		20.318 49.747 65.921 1.00 34.04	C
ATOM	5561 CB THR B 328		Č
ATOM	5563 OG1 THR B 328	21.413 48.902 67.934 1.00 33.36	o
ATOM	5565 CG2 THR B 328		C
ATOM ATOM	5569 C THR B 328		c
ATOM	5570 O THR B 328		Ö
	5571 N PHE B 329		N
ATOM		21.391 51.481 62.674 1.00 37.46	C
ATOM	5575 CB PHE B 329		Č
ATOM	5578 CG PHE B 329		C
	5579 CD1 PHE B 329		C
	5581 CE1 PHE B 329	19.370 50.251 58.774 1.00 32.44	C
ATOM		19.600 51.240 57.779 1.00 32.28	C
	5583 CZ PHE B 329 5585 CE2 PHE B 329	20.061 52.534 58.160 1.00 32.50	C
	5587 CD2 PHE B 329	20.277 52.845 59.539 1.00 33.37	C
ATOM		22.685 52.267 62.636 1.00 38.95	c
	5589 C PHE B 329	23.031 52.983 63.605 1.00 39.29	Ö
ATOM	5590 O PHE B 329		N
ATOM	5591 N ALAB 330	23.401 52.110 61.519 1.00 40.52	
ATOM	5593 CA ALAB 330	24.692 52.784 61.250 1.00 41.72 24.448 54.292 60.856 1.00 41.87	C C
ATOM	5595 CB ALA B 330	25.755 52.665 62.382 1.00 42.50	C
ATOM	5599 C ALA B 330		
ATOM	5600 O ALA B 330	26.510 53.613 62.635 1.00 42.94	O N
ATOM	5601 N LYS B 331	25.796 51.501 63.047 1.00 42.97	N
ATOM	5603 CA LYS B 331	26.769 51.187 64.109 1.00 42.98	C
ATOM	5605 CB LYS B 331	28.154 51.807 63.813 1.00 43.35	C

ATOM	5608 CG LYS B 331	29.367 50.949 64.245 1.00 44.35	C
<b>ATOM</b>	5611 CD LYS B 331	30.132 51.529 65.477 1.00 44.51	C
<b>ATOM</b>	5614 CE LYS B 331	31.650 51.256 65.436 1.00 43.98	С
<b>ATOM</b>	5617 NZ LYS B 331	32.088 50.219 66.425 1.00 43.27	N
<b>ATOM</b>	5621 C LYS B 331	26.321 51.574 65.528 1.00 42.54	C
<b>ATOM</b>	5622 O LYS B 331	26.393 50.745 66.441 1.00 42.68	O
<b>ATOM</b>	5623 N ASP B 332	25.870 52.816 65.715 1.00 41.85	N
ATOM	5625 CA ASP B 332	25.744 53.405 67.066 1.00 41.27	C
<b>ATOM</b>	5627 CB ASP B 332	26.648 54.643 67.166 1.00 41.37	С
ATOM	5630 CG ASP B 332	27.916 54.376 67.939 1.00 43.32	C
ATOM	5631 OD1 ASP B 332	27.800 53.754 69.015 1.00 45.82	О
ATOM	5632 OD2 ASP B 332	29.066 54.755 67.569 1.00 45.99	Ο
ATOM	5633 C ASP B 332	24.324 53.807 67.519 1.00 40.06	C
<b>ATOM</b>	5634 O ASP B 332	23.973 53.629 68.694 1.00 40.21	0
<b>ATOM</b>	5635 N PHE B 333	23.535 54.375 66.597 1.00 38.31	N
ATOM	5637 CA PHE B 333	22.264 55.048 66.929 1.00 36.53	C
ATOM	5639 CB PHE B 333	21.821 55.986 65.783 1.00 36.85	C
<b>ATOM</b>	5642 CG PHE B 333	22.803 57.109 65.449 1.00 37.25	C
ATOM	5643 CD1 PHE B 333	22.727 57.744 64.202 1.00 37.78	C
ATOM	5645 CE1 PHE B 333	23.602 58.776 63.859 1.00 37.52	С
ATOM	5647 CZ PHE B 333	24.579 59.191 64.762 1.00 37.96	С
<b>ATOM</b>	5649 CE2 PHE B 333	24.676 58.572 66.010 1.00 38.44	C
<b>ATOM</b>	5651 CD2 PHE B 333	23.782 57.535 66.354 1.00 38.00	C
<b>ATOM</b>	5653 C PHE B 333	21.173 54.003 67.152 1.00 34.39	С
<b>ATOM</b>	5654 O PHE B 333	21.133 53.011 66.425 1.00 34.49	Ο
ATOM	5655 N THR B 334	20.298 54.213 68.142 1.00 31.37	N
<b>ATOM</b>	5657 CA THR B 334	19.233 53.245 68.423 1.00 28.90	C
<b>ATOM</b>	5659 CB THR B 334	19.489 52.472 69.735 1.00 28.73	C
<b>ATOM</b>		19.395 53.347 70.856 1.00 27.84	О
<b>ATOM</b>	5663 CG2 THR B 334	20.913 51.951 69.798 1.00 28.88	C
ATOM	5667 C THR B 334	17.885 53.907 68.487 1.00 27.01	C
ATOM	5668 O THR B 334	17.776 55.056 68.881 1.00 26.50	Ο
<b>ATOM</b>	5669 N TYR B 335	16.857 53.163 68.094 1.00 25.11	N
<b>ATOM</b>	5671 CA TYR B 335	15.482 53.674 68.054 1.00 23.96	C
ATOM	5673 CB TYR B 335	15.043 53.947 66.594 1.00 23.57	C
ATOM	5676 CG TYR B 335	16.081 54.764 65.863 1.00 22.27	C
<b>ATOM</b>	5677 CD1 TYR B 335	17.128 54.140 65.207 1.00 20.83	C
<b>ATOM</b>	5679 CEI TYR B 335	18.116 54.874 64.591 1.00 21.68	C
<b>ATOM</b>	5681 CZ TYR B 335	18.077 56.255 64.643 1.00 21.74	С
<b>ATOM</b>	5682 OH TYR B 335	19.076 56.954 64.007 1.00 22.73	Ο
<b>ATOM</b>	5684 CE2 TYR B 335	17.057 56.908 65.313 1.00 20.42	C
<b>ATOM</b>	5686 CD2 TYR B 335	16.070 56.163 65.920 1.00 20.65	С
<b>ATOM</b>	5688 C TYR B 335	14.527 52.719 68.769 1.00 23.17	C
ATOM	5689 O TYR B 335	14.706 51.506 68.715 1.00 22.58	О
<b>ATOM</b>	5690 N SER B 336	13.536 53.282 69.456 1.00 22.23	N
ATOM	5692 CA SER B 336	12.465 52.499 70.058 1.00 21.91	С
ATOM	5694 CB SER B 336	12.186 53.014 71.455 1.00 21.67	С
ATOM	5697 OG SER B 336	11.627 54.304 71.383 1.00 20.32	Ο

ATOM	5699 C SER B 336	11.171 52.601 69.229 1.00 22.21	C
ATOM	5700 O SER B 336	11.056 53.445 68.355 1.00 22.11	0
ATOM	5701 N LYS B 337	10.192 51.751 69.532 1.00 22.30	N
ATOM	5703 CA LYS B 337	8.848 51.861 68.971 1.00 22.58	C
ATOM	5705 CB LYS B 337	7.838 51.000 69.766 1.00 22.86	С
ATOM	5708 CG LYS B 337	7.845 49.503 69.388 1.00 25.37	С
ATOM	5711 CD LYS B 337	6.937 48.610 70.288 1.00 28.27	С
ATOM	5714 CE LYS B 337		С
ATOM	5717 NZ LYS B 337	8.733 47.647 71.941 1.00 28.77	N
ATOM	5721 C LYS B 337	8.395 53.315 68.969 1.00 22.19	C
ATOM	5722 O LYS B 337	7.792 53.773 68.012 1.00 22.00	O
ATOM	5723 N ASP B 338	8.688 54.035 70.047 1.00 22.23	N
ATOM	5725 CA ASP B 338	8.183 55.401 70.219 1.00 22.28	C
ATOM	5727 CB ASP B 338	8.176 55.799 71.694 1.00 22.08	Ċ
ATOM	5730 CG ASP B 338	7.074 55.120 72.462 1.00 22.94	Ċ
ATOM		6.945 55.394 73.666 1.00 26.13	0
ATOM	5732 OD2 ASP B 338		Ö
ATOM	5733 C ASP B 338	8.939 56.433 69.387 1.00 22.00	C
ATOM	5734 O ASP B 338	8.362 57.451 69.002 1.00 21.99	Ö
ATOM	5735 N ASP B 339		N
ATOM	5737 CA ASP B 339	10.983 57.016 68.209 1.00 21.22	C
ATOM	5739 CB ASP B 339	12.451 56.590 68.187 1.00 21.14	Č
ATOM		13.153 56.814 69.514 1.00 19.12	Č
ATOM		12.607 57.516 70.397 1.00 18.47	O
ATOM	5744 OD2 ASP B 339	14.272 56.317 69.737 1.00 15.17	Ö
ATOM	5745 C ASP B 339	10.395 56.922 66.805 1.00 21.49	c
ATOM	5746 O ASP B 339	10.181 57.936 66.157 1.00 21.88	Ö
ATOM	5747 N PHE B 340	10.124 55.703 66.355 1.00 21.61	N
ATOM	5749 CA PHE B 340	9.421 55.456 65.104 1.00 22.23	,C
ATOM	5751 CB PHE B 340	9.155 53.956 64.950 1.00 22.07	Č
ATOM		10.312 53.168 64.340 1.00 22.43	C
ATOM		11.454 52.904 65.060 1.00 21.40	C
ATOM	5757 CEI PHE B 340	12.484 52.181 64.526 1.00 21.44	č
ATOM	5759 CZ PHE B 340		c
ATOM	5761 CE2 PHE B 340	11.249 51.897 62.520 1.00 24.73	C
	5763 CD2 PHE B 340	10.217 52.643 63.057 1.00 24.99	C
ATOM	5765 C PHE B 340	8.085 56.224 65.016 1.00 23.08	c
ATOM	5766 O PHE B 340	7.752 56.773 63.975 1.00 22.89	Ö
	5767 N HIS B 341	7.337 56.258 66.119 1.00 24.44	N
	5769 CA HIS B 341	6.057 56.966 66.211 1.00 25.29	C
	5771 CB HIS B 341	5.207 56.459 67.399 1.00 25.49	C
	5774 CG HIS B 341	3.867 57.130 67.497 1.00 29.92	C
	5774 CG HIS B 341 5775 ND1 HIS B 341	2.912 57.037 66.504 1.00 34.31	N
		1.857 57.767 66.834 1.00 35.62	C
	5777 CE1 HIS B 341 5779 NE2 HIS B 341	2.092 58.339 68.004 1.00 35.84	N
	5779 NEZ HIS B 341 5781 CD2 HIS B 341	3.349 57.971 68.434 1.00 34.74	C
ATOM		6.269 58.470 66.325 1.00 25.32	c
ATOM			0
ATOM	5784 O HIS B 341	5.413 59.248 65.912 1.00 25.52	U

ATOM	5785 N ARG B 342	7.403 58.886 66.884 1.00 25.67	N
ATOM			С
ATOM	5789 CB ARG B 342	8.877 60.541 67.983 1.00 26.04	С
ATOM		8.462 60.654 69.435 1.00 27.57	С
ATOM		9.666 60.676 70.390 1.00 29.94	Ċ
ATOM		9.657 59.520 71.283 1.00 31.90	N
ATOM	5800 CZ ARG B 342		C
ATOM	5801 NH1 ARG B 342	8.818 60.659 73.121 1.00 34.20	N
ATOM	5804 NH2 ARG B 342	9.271 58.405 73.236 1.00 35.42	N
ATOM	5807 C ARG B 342	8.138 60.889 65.663 1.00 25.34	c
ATOM	5808 O ARG B 342	8.109 62.099 65.486 1.00 25.43	Ö
ATOM	5809 N ALA B 343		N
ATOM		8.843 60.320 63.348 1.00 24.59	C
ATOM		9.897 59.295 62.806 1.00 24.44	Č
ATOM			c
ATOM		7.723 60.401 61.238 1.00 24.68	ŏ
ATOM		6.406 60.159 63.031 1.00 24.10	N
ATOM	5821 CA GLY B 344	5.129 60.248 62.335 1.00 23.57	C
ATOM	5824 C GLY B 344	4.644 58.972 61.669 1.00 23.22	c
ATOM	5825 O GLY B 344	3.623 58.977 60.969 1.00 23.29	ŏ
ATOM	5826 N LEUB 345		N
ATOM		4.956 56.594 61.301 1.00 22.72	C
ATOM	5830 CB LEU B 345		č
ATOM	5833 CG LEU B 345		C
ATOM	5835 CD1 LEU B 345	8.243 54.642 60.289 1.00 23.31	C
ATOM	5839 CD2 LEU B 345	7.591 56.950 59.811 1.00 23.73	C
ATOM	5843 C LEUB 345	3.789 56.098 62.161 1.00 22.68	c
ATOM	5844 O LEUB 345	3.644 56.491 63.315 1.00 22.90	Ö
ATOM	5845 N GLN B 346		N
ATOM		1.715 54.789 62.221 1.00 22.82	C
ATOM		0.550 54.784 61.225 1.00 22.68	č
ATOM		0.687 53.739 60.126 1.00 22.89	Č
ATOM		-0.168 53.998 58.906 1.00 22.91	C
ATOM		-1.027 54.876 58.899 1.00 25.22	o
ATOM	5857 NE2 GLN B 346	0.059 53.219 57.874 1.00 22.78	N
ATOM	5860 C GLN B 346	1.919 53.394 62.798 1.00 22.78	C
ATOM	5861 O GLN B 346	2.836 52.673 62.400 1.00 22.46	ŏ
ATOM	5862 N VALB 347	1.042 53.025 63.724 1.00 22.81	N
ATOM		1.178 51.779 64.471 1.00 22.84	C
	5866 CB VALB 347	0.220 51.775 65.691 1.00 23.00	Č
	5868 CG1 VAL B 347	-0.117 50.386 66.156 1.00 23.34	C
	5872 CG2 VAL B 347	0.876 52.539 66.834 1.00 23.60	C
ATOM		1.004 50.553 63.575 1.00 22.61	c
ATOM	5877 O VALB 347	1.561 49.473 63.850 1.00 22.18	ŏ
ATOM	5878 N GLUB 348	0.288 50.742 62.474 1.00 22.39	N
ATOM	5880 CA GLU B 348	-0.002 49.652 61.540 1.00 22.40	C
	5882 CB GLUB 348	-1.058 50.089 60.518 1.00 22.76	Č
	5885 CG GLU B 348	-2.452 50.344 61.111 1.00 24.13	C
LY I OIM	2002 CO GDO D 240	2,724 JOINT OILLIA 1.00 47.13	$\sim$

ATOM	5888	CD GLU B 348	-2.650 51.716 61.766 1.00 27.04	C
<b>ATOM</b>	5889	OE1 GLU B 348	-1.883 52.665 61.519 1.00 28.52	0
<b>ATOM</b>				0
<b>ATOM</b>	5891	C GLU B 348	1.258 49.093 60.860 1.00 21.34	Ċ
ATOM	5892	O GLU B 348	1.242 47.973 60.369 1.00 20.76	0
ATOM	5893	N PHE B 349	2.345 49.868 60.901 1.00 20.77	N
ATOM	5895	CA PHE B 349	3.660 49.505 60.322 1.00 20.45	С
ATOM			4.142 50.643 59.376 1.00 20.64	С
ATOM	5900	CG PHE B 349	5.471 50.394 58.677 1.00 20.78	С
			5.748 49.196 58.058 1.00 21.02	С
ATOM	5903	CE1 PHE B 349	6.962 48.998 57.425 1.00 20.54	С
ATOM	5905	CZ PHE B 349	7.903 50.006 57.374 1.00 19.72	С
ATOM	5907	CE2 PHE B 349	7.641 51.199 57.957 1.00 19.91	С
ATOM	5909	CD2 PHE B 349	6.433 51.401 58.611 1.00 21.36	С
ATOM			4.690 49.228 61.413 1.00 19.62	С
ATOM			5.443 48.274 61.329 1.00 19.67	0
ATOM			4.695 50.055 62.444 1.00 19.19	N
			5.594 49.897 63.577 1.00 18.87	С
ATOM	5917	CB ILE B 350	5.414 51.034 64.548 1.00 18.54	C
ATOM	5919	CG1 ILE B 350	5.726 52.360 63.858 1.00 17.95	С
ATOM	5922	CD1 ILE B 350	5.383 53.531 64.691 1.00 17.74	С
ATOM		CG2 ILE B 350		С
ATOM	5930	C ILE B 350	5.409 48.581 64.329 1.00 19.09	С
ATOM			6.384 47.876 64.572 1.00 19.31	O
ATOM			4.181 48.239 64.704 1.00 19.09	N
			3.950 46.965 65.412 1.00 19.26	С
ATOM	5936	CB ASN B 351	2.492 46.861 65.878 1.00 19.30	С
ATOM	5939	CG ASN B 351	2.216 47.712 67.152 1.00 20.22	C
<b>ATOM</b>	5940	OD1 ASN B 351	3.090 48.471 67.620 1.00 21.96	Ο
ATOM	5941	ND2 ASN B 351	1.007 47.591 67.700 1.00 18.64	N
ATOM	5944	C ASN B 351	4.444 45.666 64.696 1.00 19.13	C
ATOM			5.173 44.873 65.296 1.00 19.31	Ο
			4.075 45.437 63.440 1.00 18.65	N
			4.681 44.364 62.662 1.00 18.12	С
ATOM	5949	CB PROB 352	4.065 44.552 61.266 1.00 18.43	C
ATOM		CG PROB 352	2.818 45.308 61.446 1.00 18.44	C
ATOM		CD PROB 352	2.988 46.109 62.701 1.00 19.18	C
ATOM		C PRO B 352	6.207 44.405 62.573 1.00 18.36	С
ATOM	5959		6.810 43.341 62.449 1.00 17.33	0
ATOM	5960	N ILE B 353	6.825 45.592 62.589 1.00 18.97	N
ATOM		CA ILE B 353	8.288 45.681 62.464 1.00 19.14	С
ATOM		CB ILE B 353	8.774 47.129 62.282 1.00 19.20	C
ATOM		CG1 ILE B 353	8.540 47.569 60.853 1.00 19.84	С
ATOM		CD1 ILE B 353	8.603 49.046 60.689 1.00 20.86	C
ATOM		CG2 ILE B 353	10.270 47.257 62.522 1.00 19.89	С
ATOM		C ILE B 353	8.914 45.071 63.688 1.00 19.17	C
ATOM	5978		9.826 44.235 63.586 1.00 19.15	0
ATOM	5979	N PHE B 354	8.403 45.469 64.848 1.00 19.09	N

<b>ATOM</b>	5981	CA PHE B 354	8.901 44.932 66.096 1.00 19.08	C
			8.569 45.857 67.270 1.00 18.93	C
			9.445 47.079 67.300 1.00 19.28	С
ATOM		CD1 PHE B 354		C
ATOM			10.109 49.170 66.355 1.00 20.21	C
ATOM				C
ATOM			11.310 48.294 68.222 1.00 18.03	C
ATOM			10.477 47.194 68.215 1.00 19.43	Č
ATOM		C PHE B 354		С
ATOM		O PHE B 354	9.312 42.712 66.838 1.00 19.01	Ö
ATOM		N GLUB 355	7.319 43.044 65.896 1.00 19.55	N
		CA GLUB 355	7.033 41.602 65.991 1.00 20.22	C
ATOM			5.584 41.249 65.739 1.00 20.39	Č
ATOM		CG GLU B 355		Ċ
ATOM		CD GLU B 355		Č
ATOM			5.991 37.908 67.182 1.00 28.26	Ō
		OE2 GLU B 355	5.219 39.653 68.243 1.00 28.91	Ō
		C GLU B 355		C
		O GLU B 355	8.464 39.773 65.459 1.00 20.45	O
		N PHE B 356	8.166 41.274 63.848 1.00 19.33	N
ATOM		CA PHE B 356	9.088 40.612 62.932 1.00 18.97	С
ATOM	6018	CB PHE B 356	9.210 41.408 61.611 1.00 19.21	C
ATOM	6021	CG PHE B 356	10.122 40.802 60.606 1.00 18.35	С
ATOM	6022	CD1 PHE B 356	9.882 39.551 60.088 1.00 18.72	С
ATOM	6024	CE1 PHE B 356	10.727 38.969 59.145 1.00 18.09	С
<b>ATOM</b>	6026	CZ PHE B 356	11.821 39.619 58.715 1.00 17.73	С
ATOM	6028	CE2 PHE B 356	12.097 40.874 59.215 1.00 20.41	С
ATOM	6030	CD2 PHE B 356	11.224 41.485 60.159 1.00 20.15	C
ATOM	6032	C PHE B 356	10.432 40.500 63.603 1.00 19.01	C
ATOM	6033	O PHE B 356	11.023 39.428 63.586 1.00 19.67	Ο
ATOM	6034	N SER B 357	10.923 41.593 64.200 1.00 18.61	N
ATOM			12.296 41.620 64.729 1.00 17.87	С
ATOM		CB SER B 357		С
ATOM			12.580 43.997 64.238 1.00 15.55	0
ATOM		C SER B 357	12.396 40.664 65.895 1.00 18.01	C
ATOM		O SER B 357	13.426 40.073 66.128 1.00 18.36	О
ATOM		N ARG B 358	11.324 40.554 66.657 1.00 18.41	N
ATOM		CA ARG B 358	11.293 39.684 67.808 1.00 18.89	С
ATOM		CB ARG B 358	10.030 39.931 68.629 1.00 19.21	C
ATOM		CG ARG B 358	10.115 41.017 69.672 1.00 20.39	C
		CD ARG B 358	8.930 41.002 70.639 1.00 23.01	C
		NE ARG B 358	7.661 41.293 69.956 1.00 24.62	N
		CZ ARG B 358	7.142 42.516 69.770 1.00 25.65	C
ATOM		NH1 ARG B 358	7.758 43.611 70.218 1.00 26.41	N
ATOM		NH2 ARG B 358	5.992 42.659 69.119 1.00 25.90	N
ATOM			11.299 38.249 67.294 1.00 19.27	C
ATOM	6068		12.017 37.381 67.822 1.00 19.25	0
ATOM	6069	N ALA B 359	10.488 38.008 66.257 1.00 19.38	N

ATOM	6071 CA ALAB 359	10.382 36.691 65.644 1.00 19.20	С
ATOM		9.350 36.675 64.528 1.00 19.07	C
ATOM	6077 C ALA B 359	11.739 36.306 65.125 1.00 19.31	C
ATOM	6078 O ALA B 359		О
ATOM		12.387 37.216 64.405 1.00 19.46	N
ATOM		13.712 36.946 63.853 1.00 20.16	С
ATOM	6083 CB MET B 360	14.200 38.114 62.979 1.00 20.19	C
ATOM	6086 CG MET B 360	13.500 38.234 61.638 1.00 20.34	Ċ
ATOM	6089 SD MET B 360	13.839 36.869 60.559 1.00 20.37	S
ATOM	6090 CE MET B 360	15.479 37.155 60.204 1.00 23.09	Č
ATOM	6094 C MET B 360	14.739 36.642 64.966 1.00 20.38	C
ATOM	6095 O MET B 360		ŏ
ATOM		14.547 37.234 66.137 1.00 20.55	N
		15.459 36.982 67.218 1.00 20.88	C
	6100 CB ARG B 361		Č
ATOM	6103 CG ARG B 361	16.316 37.831 69.407 1.00 21.67	C
	6106 CD ARG B 361	16.153 38.821 70.511 1.00 23.20	C
ATOM		16.708 38.365 71.792 1.00 24.55	N
ATOM			C
ATOM			
ATOM		14.855 37.098 72.477 1.00 22.76	N
			N
ATOM		15.236 35.595 67.782 1.00 21.45	C
ATOM		16.172 34.957 68.220 1.00 21.22	0
	6120 N ARG B 362	14.004 35.111 67.780 1.00 22.13	N
ATOM		13.752 33.788 68.325 1.00 22.86	C
ATOM	6124 CB ARG B 362	12.261 33.511 68.464 1.00 23.28	C
ATOM	•	11.541 34.326 69.483 1.00 24.48	C
ATOM		10.037 34.187 69.364 1.00 26.98	С
ATOM		9.338 35.435 69.665 1.00 28.73	N
		8.333 35.946 68.954 1.00 30.48	C
	6136 NH1 ARG B 362	7.875 35.341 67.860 1.00 29.56	N
ATOM	6139 NH2 ARG B 362		N
ATOM		14.368 32.709 67.446 1.00 22.90	C
ATOM	6143 O ARG B 362	14.557 31.585 67.890 1.00 23.17	О
ATOM	6144 N LEUB 363	14.656 33.032 66.195 1.00 23.09	N
	6146 CA LEUB 363	15.352 32.090 65.320 1.00 23.10	C
ATOM	6148 CB LEUB 363	15.051 32.383 63.856 1.00 23.37	С
ATOM	6151 CG LEUB 363	13.746 31.828 63.325 1.00 24.43	C
ATOM	6153 CD1 LEU B 363	13.567 32.406 61.943 1.00 25.89	С
ATOM	6157 CD2 LEU B 363	13.789 30.290 63.294 1.00 25.28	С
<b>ATOM</b>	6161 C LEUB 363	16.855 32.080 65.512 1.00 22.55	C
<b>ATOM</b>	6162 O LEUB 363	17.484 31.128 65.129 1.00 22.71	0
ATOM	6163 N GLY B 364	17.424 33.156 66.043 1.00 22.17	N
ATOM	6165 CA GLY B 364	18.838 33.217 66.362 1.00 21.90	C
ATOM	6168 C GLY B 364	19.769 32.980 65.197 1.00 21.74	С
ATOM	6169 O GLY B 364	20.661 32.123 65.278 1.00 20.98	O
ATOM	6170 N LEUB 365	19.561 33.742 64.123 1.00 21.69	N
ATOM		20.424 33.680 62.937 1.00 22.03	C

ATOM	6174	CB LEU B 365	19.770 34.385 61.742 1.00 22.39	С
ATOM	6177	CG LEU B 365	18.297 34.184 61.338 1.00 23.57	С
<b>ATOM</b>	6179	CD1 LEU B 365	18.132 34.588 59.929 1.00 24.90	С
<b>ATOM</b>	6183		17.853 32.769 61.452 1.00 26.03	C
<b>ATOM</b>	6187	C LEU B 365	21.827 34.294 63.161 1.00 21.97	С
<b>ATOM</b>	6188	O LEU B 365	21.973 35.301 63.864 1.00 21.63	Ο
<b>ATOM</b>	6189	N ASP B 366	22.852 33.669 62.571 1.00 21.97	N
ATOM.	6191	CA ASP B 366	24.214 34.227 62.545 1.00 21.76	С
ATOM	6193	CB ASP B 366	25.300 33.132 62.729 1.00 21.83	C
<b>ATOM</b>	6196	CG ASP B 366	25.210 31.983 61.714 1.00 22.12	С
ATOM	6197	OD1 ASP B 366	24.858 32.219 60.531 1.00 23.46	О
<b>ATOM</b>	6198	OD2 ASP B 366	25.492 30.794 62.008 1.00 20.18	О
<b>ATOM</b>	6199	C ASP B 366	24.399 35.040 61.259 1.00 21.52	С
<b>ATOM</b>	6200	O ASP B 366	23.458 35.232 60.531 1.00 21.62	O
ATOM		N ASP B 367	25.600 35.530 60.991 1.00 21.93	N
ATOM	6203	CA ASP B 367	25.869 36.363 59.809 1.00 21.96	C
<b>ATOM</b>	6205	CB ASP B 367	27.304 36.897 59.841 1.00 22.50	С
<b>ATOM</b>			27.530 37.937 60.923 1.00 24.91	С
<b>ATOM</b>	6209	OD1 ASP B 367	26.560 38.629 61.362 1.00 26.49	О
<b>ATOM</b>	6210	OD2 ASP B 367	28.683 38.108 61.382 1.00 28.92	О
ATOM	6211	C ASP B 367	25.714 35.640 58.496 1.00 20.99	C
ATOM	6212	O ASP B 367	25.215 36.193 57.525 1.00 21.18	О
ATOM		N ALA B 368	26.218 34.423 58.459 1.00 19.97	N
ATOM	6215	CA ALAB 368	26.045 33.556 57.318 1.00 19.75	С
<b>ATOM</b>	6217	CB ALA B 368	26.727 32.212 57.606 1.00 19.33	С
<b>ATOM</b>	6221	C ALA B 368	24.544 33.338 56.947 1.00 19.49	C
<b>ATOM</b>	6222	O ALA B 368	24.174 33.331 55.779 1.00 19.63	Ο
ATOM	6223	N GLUB 369	23.692 33.136 57.942 1.00 19.20	N
ATOM	6225	CA GLUB 369	22.302 32.829 57.686 1.00 18.60	C
ATOM	6227	CB GLU B 369	21.622 32.259 58.934 1.00 18.76	С
ATOM	6230	CG GLU B 369	22.020 30.797 59.128 1.00 19.93	С
ATOM	6233	CD GLU B 369	21.526 30.131 60.415 1.00 22.09	С
ATOM	6234	OE1 GLU B 369	21.206 28.912 60.342 1.00 22.95	O
ATOM		OE2 GLU B 369	21.502 30.774 61.499 1.00 21.86	О
<b>ATOM</b>	6236	C GLU B 369	21.643 34.059 57.145 1.00 17.93	C
<b>ATOM</b>	6237	O GLU B 369	20.951 33.977 56.144 1.00 17.73	Ο
ATOM	6238	N TYR B 370	21.922 35.202 57.750 1.00 17.57	N
ATOM	6240	CA TYR B 370	21.345 36.470 57.298 1.00 18.20	C
<b>ATOM</b>	6242	CB TYR B 370	21.750 37.623 58.220 1.00 18.25	C
<b>ATOM</b>	6245	CG TYR B 370	20.713 37.978 59.225 1.00 17.86	C
ATOM	6246	CD1 TYR B 370	20.874 37.641 60.557 1.00 20.22	С
ATOM	6248	CE1 TYR B 370	19.902 37.958 61.496 1.00 21.95	C
ATOM		CZ TYR B 370	18.759 38.609 61.082 1.00 21.88	C
ATOM	6251	OH TYR B 370	17.798 38.912 61.996 1.00 24.56	0
ATOM	6253	CE2 TYR B 370	18.592 38.960 59.766 1.00 20.01	С
ATOM	6255	CD2 TYR B 370	19.568 38.636 58.849 1.00 18.17	С
ATOM	6257		21.783 36.826 55.894 1.00 18.62	C
ATOM	6258	O TYR B 370	21.012 37.330 55.095 1.00 18.31	О

ATOM	6259	N ALA B 371	23.059 36.586 55.625 1.00 19.41	N
ATOM	6261	CA ALA B 371	23.651 36.869 54.332 1.00 19.77	С
ATOM	6263	CB ALA B 371	25.101 36.520 54.355 1.00 20.11	С
ATOM	6267	C ALA B 371	22.942 36.048 53.280 1.00 20.15	С
ATOM	6268	O ALA B 371	22.403 36.600 52.334 1.00 20.44	O
ATOM	6269	N LEU B 372	22.926 34.733 53.464 1.00 20.08	N
ATOM		CA LEUB 372	22.245 33.855 52.542 1.00 20.52	C
ATOM		CB LEU B 372	22.332 32.416 53.037 1.00 20.24	С
ATOM		CG LEU B 372	23.674 31.705 52.814 1.00 20.48	С
ATOM		CD1 LEU B 372	23.645 30.402 53.579 1.00 22.12	С
ATOM		CD2 LEU B 372	23.996 31.406 51.368 1.00 19.23	С
ATOM		C LEU B 372	20.771 34.266 52.285 1.00 21.35	С
ATOM				Ŏ
ATOM		N LEU B 373		N
			18.669 35.090 53.218 1.00 21.88	C
		CB LEU B 373		Č
ATOM		CG LEU B 373		Č
ATOM			16.240 33.634 54.489 1.00 25.08	C
ATOM			16.434 35.258 56.348 1.00 26.33	č
ATOM			18.492 36.348 52.400 1.00 21.53	c
ATOM	6306		17.525 36.513 51.691 1.00 21.68	Ö
ATOM			19.451 37.244 52.506 1.00 21.20	N
ATOM		•	19.438 38.454 51.717 1.00 21.25	C
			20.474 39.439 52.290 1.00 21.83	C
ATOM			19.942 40.033 53.609 1.00 22.17	C
ATOM		CD1 ILE B 374	21.057 40.530 54.545 1.00 23.01	C
ATOM		CG2 ILE B 374	20.798 40.532 51.287 1.00 22.04	C
ATOM				c
ATOM			19.701 38.147 50.244 1.00 20.32	0
ATOM			19.026 38.676 49.384 1.00 20.43	N
ATOM			20.668 37.287 49.962 1.00 19.75	
ATOM			20.935 36.828 48.599 1.00 19.72	C
ATOM			22.103 35.907 48.605 1.00 19.65	C
ATOM			19.717 36.114 47.975 1.00 20.06	C
ATOM			19.323 36.387 46.843 1.00 19.99	0
ATOM	6336		19.106 35.208 48.731 1.00 20.10	N
ATOM		CA ILE B 376	17.867 34.578 48.295 1.00 19.73	C
ATOM		CB ILE B 376	17.372 33.606 49.367 1.00 19.55	C
		CG1 ILE B 376	18.335 32.421 49.481 1.00 20.36	C
		CD1 ILE B 376	18.102 31.493 50.697 1.00 20.84	C
		CG2 ILE B 376	15.972 33.126 49.009 1.00 18.87	C
		C ILE B 376	16.794 35.625 48.008 1.00 19.34	C
ATOM		O ILEB 376	16.097 35.560 47.002 1.00 19.00	O
ATOM		N ASN B 377	16.669 36.585 48.911 1.00 19.36	N
ATOM		CA ASN B 377	15.673 37.626 48.774 1.00 19.72	C
ATOM		CB ASN B 377	15.687 38.548 49.985 1.00 19.90	C
ATOM		CG ASN B 377	14.531 39.515 49.975 1.00 20.18	C
ATOM		OD1 ASN B 377		0
ATOM	6364	ND2 ASN B 377	13.454 39.185 50.682 1.00 19.64	N

ATOM			15.876 38.451 47.501 1.00 19.83	C
ATOM			14.899 38.825 46.841 1.00 19.63	О
ATOM		N ILE B 378	17.133 38.721 47.138 1.00 19.53	N
ATOM			17.402 39.535 45.947 1.00 19.39	С
ATOM		CB ILE B 378		C
ATOM			19.253 40.988 46.873 1.00 18.64	С
ATOM		CD1 ILE B 378		C
ATOM			19.211 40.382 44.502 1.00 20.08	С
ATOM		C ILE B 378	16.946 38.761 44.702 1.00 19.44	C
ATOM			16.234 39.281 43.843 1.00 19.04	O
ATOM			17.362 37.500 44.636 1.00 20.13	N
ATOM			17.057 36.605 43.510 1.00 20.55	C
ATOM	6392	CB PHE B 379	18.160 35.555 43.372 1.00 19.19	С
			19.480 36.135 43.009 1.00 18.93	C
ATOM		CD1 PHE B 379	20.620 35.781 43.693 1.00 19.79	С
ATOM			21.850 36.338 43.339 1.00 19.77	C
ATOM			21.926 37.253 42.267 1.00 18.12	С
ATOM			20.803 37.598 41.595 1.00 16.98	C
ATOM			19.593 37.055 41.963 1.00 19.16	C
ATOM		C PHE B 379	15.633 35.985 43.578 1.00 21.45	C
ATOM	6407	O PHE B 379	15.442 34.813 43.424 1.00 21.76	О
ATOM	6408	N SER B 380	14.638 36.820 43.771 1.00 22.84	N
ATOM	6410	CA SER B 380	13.261 36.399 43.772 1.00 23.88	C
ATOM	6412	CB SER B 380	12.444 37.291 44.720 1.00 23.56	С
<b>ATOM</b>	6415	OG SER B 380	12.812 37.045 46.042 1.00 23.12	О
ATOM	6417	C SER B 380	12.754 36.575 42.363 1.00 24.73	C
ATOM	6418	O SER B 380	12.582 37.697 41.901 1.00 25.21	O
ATOM	6419	N ALA B 381	12.464 35.478 41.684 1.00 26.26	N
ATOM			12.124 35.551 40.246 1.00 26.69	C
<b>ATOM</b>	6423	CB ALA B 381	12.230 34.178 39.572 1.00 26.50	C
ATOM	6427	C ALA B 381	10.758 36.168 39.990 1.00 26.86	С
<b>ATOM</b>	6428	O ALA B 381	10.514 36.644 38.869 1.00 27.16	О
ATOM	6429	N ASP B 382	9.898 36.202 41.019 1.00 26.82	N
ATOM	6431	CA ASP B 382	8.498 36.644 40.851 1.00 26.90	С
ATOM	6433	CB ASP B 382	7.628 35.804 41.720 1.00 27.49	C
ATOM	6436	CG ASP B 382	7.814 36.137 43.155 1.00 30.39	C
ATOM	6437	OD1 ASP B 382	8.963 36.427 43.548 1.00 32.42	О
ATOM	6438	OD2 ASP B 382	6.874 36.168 43.958 1.00 35.98	Ο
ATOM	6439	C ASP B 382	8.214 38.092 41.223 1.00 26.15	С
<b>ATOM</b>	6440	O ASP B 382	7.088 38.453 41.531 1.00 25.45	0
ATOM	6441	N ARG B 383	9.244 38.923 41.215 1.00 25.85	N
ATOM	6443	CA ARG B 383	9.036 40.342 41.392 1.00 25.29	С
ATOM	6445	CB ARG B 383	10.356 41.064 41.574 1.00 25.32	C
ATOM	6448	CG ARG B 383	11.181 40.580 42.713 1.00 24.29	C
ATOM	6451	CD ARG B 383	10.514 40.697 44.041 1.00 23.33	C
ATOM	6454	NE ARG B 383	11.504 40.573 45.118 1.00 22.46	N
ATOM	6456	CZ ARG B 383	11.225 40.635 46.406 1.00 20.26	C
ATOM	6457	NH1 ARG B 383	9.988 40.849 46.836 1.00 18.05	N

		-00	
ATOM		12.198 40.476 47.272 1.00 22.17	N
ATOM		8.349 40.918 40.181 1.00 24.76	С
ATOM		8.384 40.356 39.115 1.00 25.12	0
ATOM	6465 N PRO B 384	7.704 42.048 40.343 1.00 24.53	N
ATOM	6466 CA PRO B 384	7.124 42.734 39.196 1.00 24.04	С
ATOM		6.475 43.975 39.831 1.00 24.07	С
ATOM	6471 CG PRO B 384	6.155 43.540 41.218 1.00 24.47	C
ATOM	6474 CD PRO B 384	7.386 42.734 41.609 1.00 24.83	C
ATOM	6477 C PRO B 384	8.165 43.135 38.164 1.00 23.45	С
		9.263 43.545 38.519 1.00 23.34	O
ATOM	6479 N ASN B 385	7.769 43.018 36.902 1.00 23.00	N
ATOM	6481 CA ASN B 385	8.504 43.474 35.720 1.00 22.84	С
ATOM	6483 CB ASN B 385	8.692 45.002 35.670 1.00 23.07	С
ATOM	6486 CG ASN B 385	7.495 45.783 36.186 1.00 23.82	С
ATOM	6487 OD1 ASN B 385	7.558 46.358 37.253 1.00 27.50	0
ATOM		6.425 45.831 35.424 1.00 24.98	N
ATOM		9.842 42.767 35.469 1.00 22.54	C
		10.709 43.305 34.761 1.00 22.77	0
ATOM		10.018 41.560 36.003 1.00 21.82	N
ATOM	6495 CA VAL B 386	11.217 40.796 35.662 1.00 21.30	С
ATOM	6497 CB VAL B 386	11.578 39.773 36.744 1.00 21.47	C
		12.626 38.766 36.233 1.00 20.95	С
ATOM	6503 CG2 VAL B 386	12.092 40.509 37.997 1.00 21.14	С
ATOM		10.979 40.156 34.287 1.00 20.86	С
		9.952 39.549 34.038 1.00 21.19	0
		11.918 40.338 33.381 1.00 20.10	N
		11.739 39.932 32.010 1.00 19.47	С
ATOM	6513 CB GLN B 387	12.281 41.018 31.111 1.00 19.47	C
ATOM	6516 CG GLN B 387	11.517 42.299 31.223 1.00 19.97	С
ATOM	6519 CD GLN B 387	12.162 43.357 30.380 1.00 21.09	С
ATOM		12.343 43.165 29.181 1.00 22.44	0
		12.537 44.467 30.995 1.00 22.01	N
		12.436 38.613 31.725 1.00 18.93	С
ATOM	6525 O GLN B 387	12.212 38.015 30.699 1.00 19.67	Ο
ATOM	6526 N GLUB 388	13.279 38.165 32.633 1.00 18.08	N
	6528 CA GLU B 388	13.932 36.895 32.503 1.00 17.71	C
	6530 CB GLU B 388	15.354 37.131 32.026 1.00 17.81	C
ATOM	6533 CG GLU B 388	15.468 37.453 30.550 1.00 17.82	С
ATOM	6536 CD GLU B 388	16.918 37.440 30.101 1.00 18.15	С
	6537 OE1 GLU B 388	17.571 38.493 30.302 1.00 17.11	0
ATOM	6538 OE2 GLU B 388	17.405 36.380 29.585 1.00 15.67	Ο
	6539 C GLU B 388	13.931 36.230 33.876 1.00 17.82	С
	6540 O GLU B 388	14.963 36.087 34.494 1.00 17.76	Ο
	6541 N PRO B 389	12.768 35.841 34.374 1.00 18.13	N
	6542 CA PRO B 389	12.679 35.301 35.720 1.00 18.15	С
	6544 CB PRO B 389	11.201 35.054 35.919 1.00 17.76	С
	6547 CG PRO B 389	10.546 35.280 34.664 1.00 17.88	С
ATOM	6550 CD PRO B 389	11.463 35.882 33.704 1.00 18.53	C

ATOM	6553 C PROB 389	13.468 34.024 35.840 1.00 19.05	C
ATOM	6554 O PRO B 389	14.147 33.863 36.848 1.00 19.55	Ο
ATOM		13.399 33.155 34.835 1.00 19.58	N
ATOM	6557 CA GLY B 390	14.282 32.013 34.722 1.00 19.86	C
	6560 C GLY B 390	15.729 32.242 35.110 1.00 20.83	C
	6561 O GLY B 390	16.320 31.440 35.846 1.00 22.05	O
ATOM		16.339 33.316 34.636 1.00 21.12	N
		17.744 33.569 34.983 1.00 21.55	С
		18.313 34.704 34.121 1.00 21.64	C
		18.149 34.521 32.611 1.00 22.19	C
		19.056 33.468 32.031 1.00 22.52	С
	6575 NE ARG B 391	20.455 33.858 32.107 1.00 23.38	N
	6577 CZ ARG B 391		С
		21.215 31.909 31.160 1.00 24.93	N
	6581 NH2 ARG B 391		N
	6584 C ARG B 391		С
ATOM			O
ATOM		16.865 34.470 37.060 1.00 23.06	N
		16.912 34.882 38.449 1.00 23.96	C
	6590 CB VAL B 392		C
		15.793 36.298 40.243 1.00 24.94	C
ATOM		15.894 37.149 37.933 1.00 22.66	C
ATOM			С
ATOM			Ο
	6602 N GLUB 393		N
		15.709 31.469 39.730 1.00 27.13	С
ATOM	CD CTTTD 000	14.635 30.644 39.068 1.00 27.48	C
	6609 CG GLU B 393	14.022 29.585 39.964 1.00 31.61	С
ATOM	6612 CD GLU B 393	12.669 29.130 39.408 1.00 38.64	C
ATOM	6613 OE1 GLU B 393	11.641 29.489 40.026 1.00 42.36	О
		12.622 28.452 38.331 1.00 42.52	О
ATOM	6615 C GLU B 393	17.008 30.636 39.738 1.00 26.81	C
ATOM	6616 O GLUB 393	17.300 29.955 40.715 1.00 27.38	Ο
ATOM	6617 N ALA B 394	17.769 30.686 38.652 1.00 26.35	N
		18.997 29.909 38.526 1.00 25.69	C
		19.486 29.946 37.113 1.00 25.51	С
	6625 C ALA B 394	20.073 30.455 39.462 1.00 25.37	C
	6626 O ALA B 394	20.877 29.703 40.026 1.00 25.18	Ο
<b>ATOM</b>	6627 N LEU B 395	20.112 31.768 39.607 1.00 24.61	N
ATOM	6629 CA LEU B 395	20.986 32.361 40.601 1.00 24.14	C
	6631 CB LEU B 395	21.169 33.848 40.305 1.00 23.88	С
	6634 CG LEU B 395	21.908 34.145 39.009 1.00 24.05	С
		21.928 35.653 38.796 1.00 25.55	С
		23.326 33.613 39.026 1.00 23.40	С
	6644 C LEU B 395	20.493 32.130 42.061 1.00 23.52	С
ATOM		21.317 32.002 42.968 1.00 23.09	0
		19.180 32.047 42.283 1.00 22.77	N
		18.659 31.911 43.649 1.00 22.84	C

ATOM	6650 CB GLN B 396	17.137 32.134 43.685 1.00 22.46	С
<b>ATOM</b>	6653 CG GLN B 396	16.597 32.351 45.121 1.00 21.86	С
ATOM	6656 CD GLN B 396	15.093 32.230 45.224 1.00 22.07	С
ATOM	6657 OE1 GLN B 396	14.539 31.210 44.849 1.00 25.24	O
ATOM	6658 NE2 GLN B 396	14.430 33.254 45.748 1.00 19.98	N
ATOM	6661 C GLN B 396	18.961 30.539 44.271 1.00 23.28	С
ATOM	6662 O GLN B 396	19.360 30.409 45.433 1.00 22.64	O
ATOM	6663 N GLNB 397	18.752 29.511 43.465 1.00 24.24	N
ATOM	6665 CA GLN B 397	18.766 28.124 43.918 1.00 24.67	С
<b>ATOM</b>	6667 CB GLN B 397	18.568 27.206 42.715 1.00 25.50	С
<b>ATOM</b>	6670 CG GLN B 397	18.448 25.747 43.063 1.00 28.77	C
ATOM	6673 CD GLN B 397	17.262 25.164 42.382 1.00 33.24	C
ATOM	6674 OE1 GLN B 397	17.224 25.139 41.143 1.00 36.36	Ο
ATOM		16.238 24.763 43.166 1.00 36.14	N
ATOM	6678 C GLN B 397	20.023 27.708 44.690 1.00 23.47	C
ATOM	6679 O GLN B 397	19.885 27.115 45.740 1.00 23.28	O
ATOM	6680 N PRO B 398	21.232 27.960 44.178 1.00 22.21	N
<b>ATOM</b>	6681 CA PRO B 398	22.429 27.606 44.954 1.00 22.07	С
<b>ATOM</b>	6683 CB PRO B 398	23.595 28.111 44.067 1.00 21.81	C
<b>ATOM</b>	6686 CG PRO B 398	23.038 28.253 42.719 1.00 20.81	C
ATOM	6689 CD PRO B 398	21.588 28.535 42.866 1.00 21.52	C
ATOM	6692 C PRO B 398	22.450 28.206 46.397 1.00 21.66	C
ATOM	6693 O PROB 398	22.887 27.547 47.341 1.00 21.24	Ο
ATOM	6694 N TYR B 399	21.944 29.421 46.554 1.00 21.10	N
ATOM	6696 CA TYR B 399	21.896 30.073 47.868 1.00 20.92	С
ATOM	6698 CB TYR B 399	21.568 31.574 47.702 1.00 21.19	C
ATOM	6701 CG TYR B 399	22.698 32.361 47.027 1.00 20.24	C
ATOM	6702 CD1 TYR B 399	22.592 32.808 45.725 1.00 18.82	C
ATOM	6704 CE1 TYR B 399	23.608 33.500 45.132 1.00 20.34	C
ATOM	6706 CZ TYR B 399	24.768 33.746 45.842 1.00 20.91	С
ATOM	6707 OH TYR B 399	25.843 34.443 45.306 1.00 21.63	Ο
ATOM		24.886 33.298 47.127 1.00 21.36	С
ATOM		23.863 32.624 47.710 1.00 20.46	С
ATOM	6713 C TYR B 399	20.898 29.419 48.815 1.00 20.41	С
ATOM	6714 O TYR B 399	21.106 29.374 50.016 1.00 20.38	O
ATOM		19.798 28.940 48.258 1.00 20.03	N
ATOM		18.800 28.185 49.011 1.00 19.24	С
ATOM		17.455 28.000 48.185 1.00 18.97	С
ATOM		16.494 27.023 48.871 1.00 17.82	С
	6725 CG2 VAL B 400	16,786 29.357 47.918 1.00 17.65	С
ATOM		19.392 26.843 49.403 1.00 19.00	С
ATOM		19.239 26.442 50.526 1.00 19.25	Ö
ATOM		20.066 26.165 48.482 1.00 18.97	N
ATOM		20.715 24.902 48.779 1.00 19.97	C
ATOM		21.390 24.353 47.523 1.00 20.59	Č
ATOM		20.569 23.320 46.786 1.00 25.37	Č
ATOM		20.983 23.073 45.329 1.00 32.52	Č
ATOM		20.167 22.424 44.643 1.00 37.24	Ō
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ATOM	6743	OE2 GLU B 401	22.083 23.500 44.846 1.00 37.72	О
ATOM	6744	C GLU B 401	21.771 25.081 49.890 1.00 19.60	С
ATOM	6745	O GLU B 401	21.978 24.222 50.745 1.00 18.58	О
ATOM	6746	N ALA B 402	22.438 26.227 49.833 1.00 19.35	N
			23.497 26.565 50.741 1.00 18.74	C
ATOM	6750	CB ALA B 402	24.162 27.859 50.273 1.00 19.13	С
ATOM	6754	C ALA B 402	22.940 26.729 52.143 1.00 18.23	С
ATOM	6755	O ALA B 402	23.481 26.159 53.102 1.00 17.98	О
ATOM	6756	N LEU B 403	21.877 27.522 52.259 1.00 17.57	N
ATOM	6758	CA LEU B 403	21.169 27.688 53.537 1.00 17.83	С
ATOM	6760	CB LEU B 403	20.047 28.720 53.394 1.00 17.84	С
ATOM	6763	CG LEU B 403	19.304 29.202 54.639 1.00 16.31	C
ATOM	6765	CD1 LEU B 403	20.264 29.765 55.627 1.00 15.60	С
ATOM	6769	CD2 LEU B 403	18.281 30.234 54.261 1.00 15.33	С
ATOM	6773	C LEU B 403	20.608 26.361 54.101 1.00 18.18	C
ATOM	6774	O LEU B 403	20.771 26.063 55.277 1.00 16.92	О
		N LEU B 404		N
			19.502 24.242 53.668 1.00 19.76	C
ATOM	6779	CB LEU B 404	18.981 23.431 52.490 1.00 19.91	С
ATOM			18.399 22.043 52.790 1.00 21.43	C
ATOM	6784	CD1 LEU B 404	17.465 22.023 53.991 1.00 22.46	C
ATOM	6788	CD2 LEU B 404	17.674 21.505 51.553 1.00 21.66	C
ATOM	6792	C LEU B 404	20.645 23.512 54.360 1.00 19.98	C
ATOM	6793	O LEU B 404	20.527 23.151 55.518 1.00 20.33	Ο
ATOM		N SER B 405		N
ATOM			22.908 22.589 54.138 1.00 21.05	С
ATOM	6798	CB SER B 405	23.900 22.377 52.998 1.00 21.36	С
<b>ATOM</b>	6801	OG SER B 405	23.235 21.895 51.833 1.00 23.07	О
ATOM	6803	C SER B 405		C
ATOM	6804	O SER B 405		0
ATOM	6805	N TYR B 406		N
ATOM	6807	CA TYR B 406	24.165 25.309 56.493 1.00 21.50	С
ATOM	6809	CB TYR B 406	24.222 26.811 56.211 1.00 21.34	С
ATOM	6812	CG TYR B 406	24.870 27.554 57.345 1.00 21.01	C
ATOM	6813	CD1 TYR B 406	26.241 27.819 57.332 1.00 20.35	С
		CE1 TYR B 406	26.859 28.471 58.379 1.00 19.54	C
		CZ TYR B 406	26.130 28.840 59.484 1.00 20.58	C
ATOM	6818	OH TYR B 406	26.751 29.480 60.525 1.00 17.71	О
ATOM	6820	<b>CE2 TYR B 406</b>	24.771 28.572 59.543 1.00 21.80	C
ATOM	6822	CD2 TYR B 406	24.141 27.937 58.456 1.00 21.03	С
ATOM	6824	C TYR B 406	23.358 25.038 57.793 1.00 21.99	С
ATOM	6825	O TYR B 406	23.952 24.666 58.803 1.00 22.50	O
ATOM	6826	N THR B 407	22.033 25.222 57.753 1.00 22.60	N
		CA THR B 407	21.106 24.979 58.893 1.00 23.33	C
		CB THR B 407	19.612 25.355 58.532 1.00 23.21	С
		OG1 THR B 407	19.223 24.720 57.311 1.00 21.25	Ο
		CG2 THR B 407	19.423 26.847 58.264 1.00 22.50	C
<b>ATOM</b>	6838	C THR B 407	21.088 23.534 59.395 1.00 24.32	C

<b>ATOM</b>	6839	O THR B 407 2	0.968 23.288 60.576 1.00 23.72	O
ATOM	6840	N ARG B 408 2	1.135 22.598 58.464 1.00 25.82	N
ATOM	6842	CA ARG B 408	21.304 21.195 58.769 1.00 27.43	С
ATOM	6844	CB ARG B 408	21.590 20.438 57.472 1.00 28.12	С
ATOM			20.474 19.593 56.985 1.00 31.35	С
			20.854 18.649 55.855 1.00 36.14	С
ATOM			19.859 17.586 55.832 1.00 40.97	N
			18.659 17.664 55.248 1.00 44.02	С
			18.292 18.752 54.556 1.00 43.40	N
			17.831 16.616 55.341 1.00 45.66	N
ATOM			2.499 20.970 59.680 1.00 27.90	С
ATOM			2.448 20.213 60.656 1.00 27.33	Ö
ATOM			.600 21.602 59.303 1.00 28.65	N
ATOM			4.874 21.315 59.925 1.00 29.43	C
			5.031 21.700 58.981 1.00 29.63	Č.
			26.238 20.585 57.942 1.00 30.42	Č
			27.234 20.919 56.829 1.00 31.02	Č
			27.305 21.931 59.766 1.00 29.94	Č
			.974 21.995 61.286 1.00 29.71	C
			.365 21.354 62.257 1.00 29.24	Ö
			4.610 23.279 61.339 1.00 30.37	N
ATOM			24.637 24.068 62.575 1.00 30.83	C
ATOM			24.243 25.526 62.291 1.00 31.05	č
ATOM			24.126 26.442 63.533 1.00 31.09	Č
			23.712 27.862 63.142 1.00 31.05	Č
ATOM			23.132 28.662 64.308 1.00 30.78	č
ATOM			23.280 30.140 64.067 1.00 30.57	N
			3.699 23.487 63.624 1.00 31.13	Ċ C
			4.025 23.455 64.812 1.00 31.02	Ö
			2.530 23.037 63.175 1.00 31.60	N
			21.484 22.548 64.071 1.00 32.04	C
ATOM			20.398 23.626 64.262 1.00 32.46	č
			20.909 24.977 64.766 1.00 35.17	Č
			21.177 25.100 66.289 1.00 39.41	Č
			20.672 26.400 66.733 1.00 44.08	N
			19.422 26.642 67.180 1.00 47.09	Ċ
		NH1 ARG B 411	18.531 25.648 67.319 1.00 47.14	N
		NH2 ARG B 411	19.065 27.896 67.511 1.00 47.17	N
			0.855 21.246 63.556 1.00 31.31	c ``
			9.684 21.237 63.219 1.00 30.81	Ö
			1.608 20.143 63.547 1.00 31.11	N
			21.108 18.848 63.040 1.00 31.04	Ċ
			22.198 17.853 63.471 1.00 31.06	Č
			23.020 18.585 64.489 1.00 31.09	C
			22.979 20.022 64.073 1.00 31.04	c
ATOM	6941		9.764 18.424 63.622 1.00 30.98	C
ATOM			8.990 17.774 62.924 1.00 30.55	0
			9.487 18.838 64.857 1.00 30.33	N
12 I OIM	0/43	1, 0000 413 1	7.107 10.030 01.037 1.00 J1.J/	. 1

ATOM	6945 CA GLN B 413	18.318 18.385 65.608 1.00 31.76	C
ATOM	6947 CB GLN B 413	18.699 18.182 67.085 1.00 31.90	C
ATOM	6950 CG GLN B 413	19.976 17.345 67.302 1.00 32.92	C
ATOM	6953 CD GLN B 413	19.728 15.837 67.190 1.00 34.63	С
ATOM	6954 OE1 GLN B 413	19.739 15.251 66.089 1.00 33.84	О
ATOM	6955 NE2 GLN B 413	19.501 15.205 68.339 1.00 36.01	N
ATOM	6958 C GLN B 413	17.098 19.310 65.515 1.00 31.52	C
ATOM	6959 O GLN B 413	16.098 19.054 66.177 1.00 31.68	Ο
ATOM	6960 N ASP B 414	17.171 20.364 64.706 1.00 31.28	N
ATOM	6962 CA ASP B 414	16.031 21.264 64.510 1.00 31.37	C
ATOM	6964 CB ASP B 414	16.344 22.671 65.012 1.00 31.36	C
ATOM	6967 CG ASP B 414	15.105 23.531 65.122 1.00 33.05	C
ATOM	6968 OD1 ASP B 414	14.044 23.162 64.562 1.00 35.59	O
ATOM	6969 OD2 ASP B 414	15.095 24.602 65.757 1.00 35.48	0
ATOM	6970 C ASP B 414	15.601 21.326 63.049 1.00 31.09	C
	6971 O ASP B 414	15.951 22.256 62.313 1.00 31.09	О
	6972 N GLN B 415	14.804 20.342 62.651 1.00 30.85	N
ATOM		14.387 20.190 61.256 1.00 30.59	C
ATOM	6976 CB GLN B 415	13.764 18.790 61.032 1.00 31.09	С
ATOM	6979 CG GLN B 415	14.780 17.634 60.807 1.00 33.66	С
ATOM	6982 CD GLN B 415	15.899 17.986 59.796 1.00 38.47	<sub>-</sub> C
ATOM		17.104 17.943 60.134 1.00 41.48	О
ATOM	070 1 1122 021 12 112	15.504 18.353 58.566 1.00 40.87	N
ATOM	6987 C GLN B 415	13.440 21.313 60.775 1.00 29.62	C
ATOM	6988 O GLN B 415	13.273 21.495 59.551 1.00 29.23	О
ATOM	6989 N LEUB 416	12.854 22.063 61.724 1.00 28.51	N
ATOM	6991 CA LEUB 416	11.926 23.172 61.412 1.00 27.87	C
ATOM	6993 CB LEU B 416	10.832 23.271 62.475 1.00 27.63	C
ATOM	6996 CG LEU B 416	9.753 22.197 62.482 1.00 27.17	С
ATOM	6998 CD1 LEU B 416	8.690 22.614 63.488 1.00 26.60	С
ATOM	7002 CD2 LEU B 416	9.154 21.951 61.090 1.00 26.52	C
ATOM	7006 C LEU B 416	12.557 24.560 61.301 1.00 27.40	С
ATOM	7007 O LEUB 416	11.872 25.525 60.974 1.00 27.02	О
ATOM		13.847 24.678 61.574 1.00 27.00	N
ATOM	7010 CA ARG B 417	14.467 26.003 61.585 1.00 26.48	С
	7012 CB ARG B 417	15.822 25.986 62.321 1.00 26.93	С
ATOM	7015 CG ARG B 417	16.894 26.860 61.699 1.00 27.72	C
ATOM	7018 CD ARG B 417	18.315 26.647 62.233 1.00 28.01	С
ATOM	7021 NE ARG B 417	18.987 27.942 62.348 1.00 26.38	N
ATOM	7023 CZ ARG B 417	18.760 28.798 63.305 1.00 23.60	C
	7024 NH1 ARG B 417		N
	7027 NH2 ARG B 417	19.387 29.956 63.287 1.00 23.29	N
ATOM	7030 C ARG B 417	14.591 26.515 60.159 1.00 25.26	C
ATOM	7031 O ARG B 417	14.311 27.673 59.905 1.00 25.17	. <b>O</b>
ATOM	7032 N PHE B 418	14.991 25.657 59.230 1.00 23.86	N
ATOM	7034 CA PHE B 418	15.044 26.080 57.839 1.00 23.32	С
ATOM	7036 CB PHE B 418	15.593 24.980 56.956 1.00 23.41	С
ATOM	7039 CG PHE B 418	15.727 25.371 55.529 1.00 24.28	C

ATOM	7040 CD1 PHE B 418	16.458 26.480 55.180 1.00 25.62	C
ATOM	7042 CE1 PHE B 418	16.607 26.847 53.871 1.00 28.16	C
ATOM	7044 CZ PHE B 418	16.022 26.090 52.868 1.00 29.91	C
ATOM	7046 CE2 PHE B 418	15.286 24.965 53.207 1.00 28.48	C
<b>ATOM</b>	7048 CD2 PHE B 418	15.137 24.618 54.538 1.00 26.82	C
ATOM	7050 C PHE B 418	13.697 26.561 57.282 1.00 23.02	C
ATOM	7051 O PHE B 418	13.657 27.627 56.697 1.00 22.33	О
ATOM	7052 N PROB 419	12.612 25.783 57.429 1.00 22.91	N
ATOM	7053 CA PRO B 419	11.284 26.233 57.016 1.00 22.93	C
<b>ATOM</b>	7055 CB PRO B 419	10.349 25.107 57.508 1.00 22.95	C
ATOM	7058 CG PRO B 419	11.155 23.916 57.474 1.00 22.86	C
<b>ATOM</b>	7061 CD PRO B 419	12.530 24.400 57.931 1.00 23.56	C
ATOM	7064 C PRO B 419	10.900 27.544 57.635 1.00 23.02	C
ATOM	7065 O PROB 419	10.437 28.399 56.875 1.00 22.94	O
<b>ATOM</b>	7066 N ARG B 420	11.114 27.717 58.942 1.00 23.41	N
ATOM	7068 CA ARG B 420	10.786 28.985 59.603 1.00 24.16	C
ATOM	7070 CB ARG B 420	11.108 28.972 61.081 1.00 24.28	C
ATOM	7073 CG ARG B 420	10.080 28.246 61.896 1.00 26.85	C
<b>ATOM</b>	7076 CD ARG B 420	10.218 28.401 63.384 1.00 30.77	C
<b>ATOM</b>	7079 NE ARG B 420	9.654 27.233 64.062 1.00 34.79	N
ATOM	7081 CZ ARG B 420	10.346 26.168 64.516 1.00 38.50	C
<b>ATOM</b>	7082 NH1 ARG B 420	11.681 26.086 64.397 1.00 39.26	N
<b>ATOM</b>	7085 NH2 ARG B 420	9.682 25.163 65.106 1.00 39.37	N
ATOM	7088 C ARG B 420	11.537 30.103 58.952 1.00 24.82	С
<b>ATOM</b>	7089 O ARG B 420	10.989 31.189 58.807 1.00 26.27	Ο
ATOM	7090 N MET B 421	12.776 29.845 58.530 1.00 24.91	N
ATOM	7092 CA MET B 421	13.553 30.868 57.843 1.00 25.26	С
ATOM	7094 CB MET B 421	14.970 30.397 57.577 1.00 25.40	C
ATOM	7097 CG MET B 421	15.826 30.434 58.849 1.00 27.21	C
<b>ATOM</b>	7100 SD MET B 421	17.544 30.165 58.566 1.00 27.35	S
<b>ATOM</b>	7101 CE MET B 421	17.757 31.547 57.546 1.00 30.33	С
ATOM	7105 C MET B 421	12.898 31.328 56.559 1.00 25.31	С
ATOM	7106 O MET B 421	12.606 32.520 56.412 1.00 24.94	Ο
ATOM	7107 N LEU B 422	12.655 30.387 55.642 1.00 25.81	N
ATOM	7109 CA LEU B 422	11.937 30.683 54.389 1.00 26.03	C
ATOM	7111 CB LEUB 422	11.675 29.424 53.544 1.00 25.89	C
	7114 CG LEUB 422	12.856 28.593 53.058 1.00 26.90	С
	7116 CD1 LEU B 422	12.349 27.425 52.241 1.00 28.42	C
	7120 CD2 LEU B 422	13.830 29.394 52.258 1.00 27.83	С
	7124 C LEU B 422	10.601 31.383 54.677 1.00 25.93	С
	7125 O LEUB 422	10.209 32.268 53.919 1.00 26.08	O
	7126 N MET B 423	9.915 31.017 55.766 1.00 25.24	N
	7128 CA MET B 423	8.633 31.637 56.062 1.00 25.20	С
	7130 CB MET B 423	7.953 30.976 57.263 1.00 26.12	C
	7133 CG MET B 423	7.525 29.546 57.077 1.00 29.14	C
	7136 SD MET B 423	6.110 29.354 56.027 1.00 33.88	S
	7137 CE MET B 423	5.398 27.865 56.718 1.00 31.87	C
	7141 C MET B 423	8.812 33.130 56.364 1.00 24.01	C

ATOM	7142 O MET B 423	7.873 33.891 56.259 1.00 24.04	Ο
		9.993 33.557 56.780 1.00 22.48	N
		10.208 34.982 56.972 1.00 21.56	C
	7147 CB LYS B 424	11.478 35.290 57.792 1.00 21.39	C
ATOM	7150 CG LYS B 424	11.493 34.587 59.158 1.00 22.03	С
ATOM	7153 CD LYS B 424	10.557 35.305 60.148 1.00 25.08	C
ATOM	7156 CE LYS B 424	10.012 34.408 61.295 1.00 25.53	С
<b>ATOM</b>	7159 NZ LYS B 424	9.429 33.142 60.779 1.00 26.17	N
ATOM	7163 C LYS B 424	10.198 35.707 55.635 1.00 20.62	C
ATOM	7164 O LYS B 424	9.785 36.856 55.601 1.00 20.46	Ο
ATOM	7165 N LEUB 425	10.606 35.069 54.533 1.00 19.60	N
ATOM	7167 CA LEU B 425	10.422 35.708 53.223 1.00 19.55	C
<b>ATOM</b>	7169 CB LEU B 425	11.035 34.913 52.090 1.00 19.54	С
ATOM	7172 CG LEU B 425	12.505 34.601 52.232 1.00 21.54	C
ATOM	7174 CD1 LEU B 425	12.869 33.566 51.211 1.00 23.40	C
ATOM	7178 CD2 LEU B 425	13.352 35.834 52.060 1.00 22.49	C
ATOM	7182 C LEUB 425	8.938 35.944 52.908 1.00 19.31	C
	7183 O LEUB 425		O
ATOM	7184 N VAL B 426		N
ATOM		6.624 35.318 53.304 1.00 19.82	C
ATOM		5.810 34.102 53.825 1.00 19.55	С
ATOM		4.326 34.417 53.825 1.00 18.92	C
ATOM	7194 CG2 VAL B 426		C
ATOM	7198 C VAL B 426	6.207 36.568 54.050 1.00 20.19	C
ATOM	7199 O VAL B 426		O
ATOM	7200 N SER B 427		N
ATOM	7202 CA SER B 427		С
ATOM	7204 CB SER B 427		С
ATOM	7207 OG SER B 427	6.259 36.781 58.288 1.00 22.31	O
ATOM	7209 C SER B 427		С
ATOM	7210 O SER B 427		О
		7.924 39.027 54.738 1.00 21.51	N
ATOM		8.587 40.206 54.213 1.00 21.87	С
	7215 CB LEU B 428	10.006 39.877 53.752 1.00 22.01	C
ATOM	7218 CG LEU B 428	11.072 39.857 54.846 1.00 22.00	С
	7220 CD1 LEU B 428	12.358 39.137 54.352 1.00 22.22	C
	7224 CD2 LEU B 428	11.375 41.269 55.310 1.00 21.90	С
ATOM	7228 C LEUB 428	7.778 40.809 53.079 1.00 22.12	C
ATOM	7229 O LEUB 428	7.788 42.016 52.901 1.00 21.40	Ο
ATOM	7230 N ARG B 429	7.072 39.969 52.330 1.00 23.03	N
ATOM	7232 CA ARG B 429	6.227 40.446 51.244 1.00 24.02	C
	7234 CB ARG B 429	5.613 39.303 50.412 1.00 24.16	C
ATOM	7237 CG ARG B 429	6.557 38.518 49.526 1.00 24.59	C
ATOM	7240 CD ARG B 429	7.456 39.354 48.604 1.00 25.32	С
ATOM	7243 NE ARG B 429	8.494 38.543 47.975 1.00 24.69	N
ATOM	7245 CZ ARG B 429	8.371 37.961 46.791 1.00 26.36	, C
	7246 NH1 ARG B 429	7.272 38.102 46.064 1.00 26.96	N
ATOM	7249 NH2 ARG B 429	9.355 37.221 46.331 1.00 27.37	N

ATOM	7252 C ARG B 429	5.106 41.270 51.814 1.00 24.59	C
ATOM	7253 O ARG B 429	4.804 42.352 51.315 1.00 26.17	О
ATOM	7254 N THR B 430	4.444 40.774 52.838 1.00 24.58	N
ATOM	7256 CA THR B 430	3.337 41.547 53.388 1.00 24.82	C
ATOM	7258 CB THR B 430	2.507 40.728 54.397 1.00 25.23	C
ATOM	7260 OG1 THR B 430	1.626 39.824 53.700 1.00 27.17	Ο
ATOM	7262 CG2 THR B 430	1.571 41.634 55.145 1.00 26.41	С
ATOM	7266 C THR B 430	3.842 42.825 54.027 1.00 24.07	С
ATOM	7267 O THR B 430	3.180 43.824 53.964 1.00 24.19	Ο
ATOM	7268 N LEUB 431	5.015 42.783 54.636 1.00 23.83	N
ATOM	7270 CA LEU B 431	5.598 43.946 55.276 1.00 23.82	C
ATOM	7272 CB LEU B 431	6.853 43.566 56.053 1.00 24.30	С
ATOM	7275 CG LEUB 431		С
ATOM		5.442 43.604 58.172 1.00 27.20	C
ATOM		7.349 42.013 57.897 1.00 28.21	C
ATOM		5.977 44.975 54.239 1.00 23.26	C
ATOM		5.923 46.176 54.492 1.00 22.84	Ö
ATOM	7287 N SER B 432		N
ATOM	7289 CA SER B 432	6.604 45.391 51.952 1.00 22.82	C
ATOM		7.100 44.653 50.732 1.00 22.84	Č
ATOM		7.207 45.556 49.655 1.00 23.55	Ö
ATOM	7296 C SER B 432		C
ATOM	7297 O SER B 432		Ō
ATOM		4.181 45.476 51.580 1.00 22.72	Ň
ATOM	7300 CA SER B 433		C
ATOM	7302 CB SER B 433	1.705 45.224 51.154 1.00 23.28	Č
ATOM	7305 OG SER B 433	1.809 44.429 49.973 1.00 27.58	Ö
ATOM		2.576 47.187 52.388 1.00 21.87	C
ATOM		2.144 48.289 52.103 1.00 21.06	Ö
ATOM		2.771 46.786 53.635 1.00 21.22	N
ATOM	7311 CA VALB 434		C
ATOM	7313 CB VAL B 434		Č
ATOM	7315 CG1 VAL B 434	2.403 47.788 57.295 1.00 20.51	C
ATOM		1.656 45.736 56.178 1.00 21.14	Č
ATOM	7323 C VAL B 434	3.277 48.928 54.648 1.00 20.36	C
	7324 O VAL B 434	2.819 49.996 55.001 1.00 19.94	Ö
	7325 N HIS B 435	4.489 48.824 54.130 1.00 20.35	N
	7327 CA HIS B 435	5.350 49.981 53.997 1.00 20.72	C
	7329 CB HIS B 435	6.791 49.571 53.668 1.00 20.92	Č
	7332 CG HIS B 435	7.678 50.733 53.347 1.00 21.42	Č
	7333 ND1 HIS B 435	8.403 50.814 52.179 1.00 20.55	N
	7335 CE1 HIS B 435	9.084 51.948 52.173 1.00 21.02	C
	7337 NE2 HIS B 435	8.795 52.624 53.273 1.00 20.03	N
ATOM	7337 NE2 HIS B 435	7.912 51.889 54.022 1.00 20.83	C
ATOM	7341 C HIS B 435	4.831 50.921 52.924 1.00 20.87	c
ATOM	7342 O HIS B 435	4.832 52.144 53.085 1.00 20.81	Ö
ATOM	7343 N SER B 436	4.385 50.357 51.824 1.00 21.23	N
ATOM		3.737 51.169 50.803 1.00 21.81	C
VI OIM	, Jaj CA GER D 430	5,757 51.107 50.005 1.00 21.01	_

ATOM	7347	CB SER B 436	3.417 50.312 49.584 1.00 21.64	С
			4.630 49.798 49.024 1.00 21.73	O
		C SER B 436		С
ATOM		O SER B 436		0
			1.709 51.240 52.181 1.00 23.51	N
		CA GLU B 437	0.548 51.827 52.856 1.00 24.49	C
		CB GLU B 437	-0.209 50.754 53.671 1.00 24.99	C
		CG GLU B 437		Č
		CD GLU B 437		Č
ATOM	7365	OE1 GLUB 437	-1.696 47.556 52.624 1.00 35.00	Ö
ATOM	7366	OE2 GLUB 437	-1.657 48.345 54.671 1.00 33.87	Ŏ
ATOM			1.006 52.968 53.771 1.00 24.70	C
ATOM			0.335 54.007 53.864 1.00 24.42	Ö
			2.155 52.772 54.424 1.00 24.99	N
			2.742 53.772 55.314 1.00 25.30	C
		CB GLN B 438		č
		CG GLN B 438		Č
			4.012 54.826 58.049 1.00 23.98	C
			4.097 54.283 59.143 1.00 24.29	O
			3.295 55.930 57.843 1.00 22.11	N
		C GLN B 438		c
ATOM			2.925 56.139 55.064 1.00 25.78	Ö
			3.943 54.882 53.465 1.00 28.03	N
ATOM			4.355 56.019 52.617 1.00 29.51	C
				C
		CB VAL B 439 CG1 VAL B 439	6.675 55.089 51.971 1.00 30.85	C
			4.785 54.643 50.495 1.00 30.83	C
ATOM				C
			3.133 56.710 52.015 1.00 30.36 3.102 57.944 51.858 1.00 30.23	Ö
		O VAL B 439		N
			2.113 55.925 51.691 1.00 31.79	
			0.884 56.523 51.209 1.00 33.28	C
		CB PHE B 440		C C
			-1.397 56.109 50.175 1.00 35.31	
			-1.357 56.572 48.848 1.00 37.12	C
		CE1 PHE B 440	-2.458 57.188 48.277 1.00 36.48	С
		CZ PHE B 440	-3.613 57.377 49.041 1.00 36.71	C
		CE2 PHE B 440	-3.660 56.946 50.364 1.00 36.17	C
		CD2 PHE B 440	-2.551 56.322 50.927 1.00 36.31	C
		C PHE B 440	0.379 57.442 52.319 1.00 33.80	C
ATOM		O PHE B 440	0.318 58.651 52.152 1.00 33.44	O
ATOM		N ALA B 441	0.093 56.843 53.471 1.00 35.03	N
		CA ALA B 441	-0.382 57.555 54.654 1.00 35.88	C
		CB ALA B 441	-0.533 56.566 55.813 1.00 35.75	С
		C ALA B 441	0.485 58.754 55.097 1.00 36.81	C
		O ALA B 441	-0.035 59.685 55.725 1.00 37.00	0
ATOM		N LEU B 442	1.782 58.735 54.782 1.00 37.81	N
		CA LEUB 442	2.689 59.798 55.206 1.00 38.67	C
ATOM	7436	CB LEU B 442	4.139 59.354 55.124 1.00 38.52	C

ATOM	7439 CG LEU B 442	4.636 58.724 56.433 1.00 38.11	C
ATOM	7441 CD1 LEU B 442		С
ATOM	7445 CD2 LEU B 442	4.839 59.754 57.535 1.00 37.08	С
ATOM	7449 C LEU B 442	2.517 61.082 54.411 1.00 40.14	C
ATOM	7450 O LEUB 442	2.765 62.165 54.934 1.00 40.85	O
ATOM	7451 N ARG B 443		N
ATOM	7453 CA ARG B 443	1.875 62.178 52.332 1.00 42.28	С
ATOM	7455 CB ARG B 443	1.702 61.772 50.869 1.00 42.73	С
ATOM	7458 CG ARG B 443	2.904 61.040 50.284 1.00 43.42	C
ATOM	7461 CD ARG B 443	2.729 60.693 48.821 1.00 45.87	Č
ATOM	7464 NE ARG B 443	2.899 61.842 47.916 1.00 47.49	N
ATOM	7466 CZ ARG B 443		C
ATOM	7467 NH1 ARG B 443		N
ATOM	7470 NH2 ARG B 443	2.988 62.868 45.846 1.00 49.74	N
ATOM	7473 C ARG B 443		C
ATOM	7474 O ARG B 443		ŏ
ATOM	7474 O ARG B 443 7475 N LEU B 444	-0.261 62.456 53.499 1.00 43.25	N
ATOM		-1.393 63.203 54.072 1.00 43.67	C
	7479 CB LEU B 444		C
ATOM	7482 CG LEU B 444	-2.912 60.948 53.946 1.00 44.89	C
ATOM		-3.840 60.183 54.916 1.00 44.64	C
ATOM		-3.571 61.163 52.571 1.00 45.14	C
ATOM			c
ATOM	7492 C LEUB 444	-0.964 64.072 55.244 1.00 43.57	
ATOM	7493 O LEUB 444	-1.767 64.833 55.767 1.00 43.90	0
ATOM	7494 N GLN B 445	0.279 63.930 55.687 1.00 43.43	N
ATOM	7496 CA GLN B 445	0.759 64.627 56.879 1.00 43.35	C
ATOM	7498 CB GLN B 445	1.100 63.624 58.015 1.00 43.42	C
ATOM	7501 CG GLN B 445	0.707 62.147 57.735 1.00 44.19	C
ATOM		0.126 61.412 58.927 1.00 44.36	C
ATOM		0.823 60.623 59.559 1.00 45.11	0
ATOM		-1.155 61.646 59.220 1.00 43.92	N
ATOM		1.958 65.515 56.508 1.00 43.00	C
ATOM	7510 O GLN B 445	2.807 65.809 57.352 1.00 43.42	0
ATOM	7511 N ASP B 446		N
ATOM	7513 CA ASP B 446	3.054 66.859 54.724 1.00 41.88	С
	7515 CB ASP B 446	3.150 68.157 55.583 1.00 42.24	C
	7518 CG ASP B 446	2.425 69.372 54.954 1.00 43.60	С
	7519 OD1 ASP B 446	2.283 69.440 53.705 1.00 44.77	О
	7520 OD2 ASP B 446	1.986 70.328 55.654 1.00 45.73	О
	7521 C ASP B 446	4.435 66.163 54.600 1.00 40.47	С
ATOM	7522 O ASP B 446	5.475 66.823 54.481 1.00 40.55	О
ATOM	7523 N LYS B 447	4.443 64.834 54.599 1.00 38.43	N
	7525 CA LYS B 447	5.693 64.099 54.620 1.00 37.05	С
ATOM	7527 CB LYS B 447	5.768 63.228 55.883 1.00 37.04	С
ATOM	7530 CG LYS B 447	5.925 64.038 57.192 1.00 36.58	C
ATOM	7533 CD LYS B 447	6.149 63.134 58.382 1.00 36.12	C
ATOM	7536 CE LYS B 447	6.249 63.897 59.653 1.00 35.81	С
ATOM	7539 NZ LYS B 447	4.944 64.489 59.979 1.00 36.74	N

ATOM	7543 C LYS B 447	5.885 63.284 53.334 1.00 36.02	С
ATOM	7544 O LYS B 447	5.567 62.091 53.266 1.00 36.06	0
ATOM	7545 N LYS B 448	6.408 63.958 52.311 1.00 34.70	N
ATOM	7547 CA LYS B 448	6.759 63.325 51.039 1.00 33.31	C
ATOM	7549 CB LYS B 448	6.669 64.320 49.883 1.00 33.27	C
ATOM	7552 CG LYS B 448	5.275 64.890 49.699 1.00 34.19	Ċ
ATOM	7555 CD LYS B 448	5.283 66.251 49.021 1.00 34.98	Č
ATOM	7558 CE LYS B 448	4.235 67.183 49.621 1.00 35.27	Č
ATOM	7561 NZ LYS B 448	3.627 68.028 48.576 1.00 34.97	N
ATOM	7565 C LYS B 448	8.169 62.832 51.140 1.00 31.74	c
ATOM	7566 O LYS B 448		Ö
	7567 N LEU B 449		N
ATOM		9.750 61.071 50.579 1.00 28.75	C
ATOM		9.701 59.675 49.961 1.00 28.54	C
ATOM	7571 CB LEU B 449	8.773 58.628 50.582 1.00 28.08	C
ATOM		8.490 57.527 49.579 1.00 27.98	
ATOM			C C
ATOM	7580 CD2 LEU B 449	9.369 58.038 51.852 1.00 27.62	
ATOM	7584 C LEU B 449		С
ATOM	7585 O LEUB 449		0
ATOM		11.962 62.097 50.070 1.00 26.77	N
ATOM		12.933 62.812 49.220 1.00 26.60	C
ATOM	,	14.229 62.728 50.031 1.00 26.41	C
ATOM	7592 CG PRO B 450	14.065 61.540 50.847 1.00 26.30	C
ATOM		12.631 61.559 51.264 1.00 26.56	C
ATOM	7598 C PRO B 450	13.138 62.151 47.850 1.00 26.48	C
<b>ATOM</b>	7599 O PRO B 450	12.644 61.047 47.694 1.00 26.36	О
ATOM	7600 N PRO B 451		N
<b>ATOM</b>	7601 CA PRO B 451	13.980 62.256 45.533 1.00 26.91	С
<b>ATOM</b>	7603 CB PRO B 451	14.962 63.232 44.886 1.00 26.97	С
<b>ATOM</b>	7606 CG PRO B 451	14.749 64.553 45.638 1.00 26.63	С
ATOM	7609 CD PRO B 451	14.371 64.163 47.023 1.00 26.77	С
ATOM	7612 C PRO B 451	14.486 60.792 45.404 1.00 27.34	C
ATOM	7613 O PRO B 451	13.804 60.024 44.722 1.00 27.32	О
ATOM		15.598 60.394 46.021 1.00 27.60	N
	7616 CA LEU B 452	16.093 59.030 45.808 1.00 28.03	С
	7618 CB LEU B 452	17.507 58.826 46.389 1.00 28.73	С
	7621 CG LEU B 452	18.165 57.425 46.196 1.00 31.15	С
		18.178 56.894 44.714 1.00 31.92	С
ATOM		19.606 57.399 46.767 1.00 32.38	С
ATOM	7631 C LEU B 452	15.121 57.952 46.325 1.00 27:55	С
ATOM	7632 O LEU B 452	15.012 56.874 45.734 1.00 28.06	Ö
ATOM	7633 N LEU B 453	14.399 58.237 47.401 1.00 27.00	N
ATOM	7635 N LEO B 453	13.393 57.294 47.923 1.00 26.27	C
ATOM	7637 CB LEU B 453	13.138 57.540 49.407 1.00 25.68	Č
ATOM	7640 CG LEU B 453	14.400 57.532 50.278 1.00 24.28	C
ATOM	7642 CD1 LEU B 453	14.057 57.776 51.757 1.00 23.69	C
	7646 CD2 LEU B 453	15.198 56.240 50.093 1.00 22.47	C
ATOM		12.072 57.356 47.153 1.00 26.62	c
ATOM	7650 C LEUB 453	12.072 37.330 47.133 1.00 20.02	C

ATOM	7651 O	LEU B 453	11.378	56.374	47.071 1.00 26.26	Ο
ATOM		SER B 454		58.510	46.593 1.00 27.23	N
ATOM	7654 CA	SER B 454	10.516	58.629	45.771 1.00 27.56	C
ATOM	7656 CB	<b>SER B 454</b>	10.341	60.051	45.256 1.00 27.17	C
ATOM	7659 OG	SER B 454	9.176	60.137	44.461 1.00 26.82	0
ATOM	7661 C	SER B 454	10.546	57.685	44.570 1.00 28.60	С
ATOM	7662 O	SER B 454	9.548	57.055 4	14.247 1.00 28.67	O
ATOM	7663 N	GLU B 455	11.684	57.578	43.900 1.00 29.39	N
ATOM	7665 CA	GLU B 455	11.71	1 56.799	42.693 1.00 30.28	С
ATOM	7667 CB	GLU B 455	12.880	57.192	41.804 1.00 30.98	С
ATOM	7670 CG	GLU B 455	14.270	56.907	42.332 1.00 34.53	C
ATOM	7673 CD	GLU B 455	15.352	2 57.392	41.361 1.00 39.06	С
ATOM	7674 OE	1 GLU B 455	15.24	9 57.056	5 40.142 1.00 41.53	C
ATOM	7675 OE	2 GLU B 455	16.30	0 58.099	41.809 1.00 40.65	C
ATOM	7676 C	GLU B 455	11.659	55.306	42.947 1.00 30.47	C
ATOM	7677 O	GLU B 455	11.347	54.555	42.035 1.00 30.99	O
ATOM	7678 N	ILE B 456	11.917	54.868 4	4.176 1.00 30.71	N
ATOM	7680 CA	ILE B 456	11.794	53.440	44.533 1.00 30.70	C
ATOM	7682 CB	<b>ILE B 456</b>	12.909	53.005	45.536 1.00 30.90	C
ATOM	7684 CG	1 ILE B 456	14.241	53.638	45.165 1.00 32.23	C
ATOM	7687 CD	1 ILE B 456	15.194	53.630	46.299 1.00 33.86	C
ATOM	7691 CG	2 ILE B 456	13.105	51.465	45.551 1.00 30.72	C
ATOM	7695 C	ILE B 456	10.423	53.077 4	5.118 1.00 30.23	С
ATOM	7696 O	ILE B 456	9.972 5	1.948 4	4.964 1.00 30.77	O
ATOM	7697 N	TRP B 457	9.754	54.015 4	5.781 1.00 29.72	N
ATOM	7699 CA	TRP B 457	8.610	53.668	46.626 1.00 29.22	С
ATOM	7701 CB	TRP B 457	8.993	53.752	48.104 1.00 29.06	С
ATOM	7704 CG	TRP B 457	10.023	52.799	48.544 1.00 26.61	C
ATOM	7705 CD	1 TRP B 457	10.233	3 51.534	48.082 1.00 26.22	C
<b>ATOM</b>	7707 NE	1 TRP B 457	11.267	7 50.950	48.771 1.00 25.62	N
ATOM	7709 CE	2 TRP B 457	11.742	2 51.844	49.689 1.00 23.49	C
<b>ATOM</b>	7710 CD	2 TRP B 457	10.96	9 53.014	49.575 1.00 23.71	С
ATOM	7711 CE	3 TRP B 457	11.244	54.082	50.426 1.00 23.40	C
ATOM	7713 CZ	3 TRP B 457	12.278	3 53.953	51.353 1.00 22.52	C
ATOM	7715 CH	2 TRP B 457	13.01	5 52.780	51.435 1.00 23.80	C
ATOM	7717 CZ	2 TRP B 457	12.765	5 51.711	50.606 1.00 23.37	С
ATOM	7719 C	TRP B 457	7.360	54.498 4	6.430 1.00 29.43	С
ATOM	7720 O	TRP B 457	6.335	54.165 4	6.996 1.00 30.24	Ο
ATOM	7721 N	ASP B 458	7.414	55.582 4	5.680 1.00 29.55	N
ATOM	7723 CA	<b>ASP B 458</b>	6.172	56.245	45.270 1.00 29.58	С
ATOM	7725 CB	ASP B 458	6.383	57.748	44.993 1.00 29.62	C
ATOM	7728 CG	ASP B 458			46.270 1.00 29.19	C
		1 ASP B 458			47.276 1.00 27.26	Ο
		2 ASP B 458			46.325 1.00 29.12	Ο
ATOM	7731 C	ASP B 458			4.020 1.00 29.27	C
ATOM		ASP B 458			4.023 1.00 29.42	О
ATOM		3 444 B 500			56.865 1.00 48.14	О
ATOM	7734 S12	2 444 B 500	15.474	51.542	57.867 1.00 46.56	S

ATOM	7735 C	014 444 B 500	16.396 50.427 58.018 1.00 48.32	Ο
ATOM		CO1 444 B 500	15.582 52.491 59.353 1.00 48.77	C
ATOM		CO2 444 B 500	15.889 51.818 60.575 1.00 50.65	С
ATOM		CO3 444 B 500	15.958 52.565 61.760 1.00 51.57	С
ATOM		C04 444 B 500	15.718 53.958 61.711 1.00 52.37	Ċ
ATOM		C05 444 B 500	15.406 54.615 60.487 1.00 51.11	C
ATOM		C06 444 B 500	15.333 53.878 59.291 1.00 49.40	č
ATOM		N15 444 B 500	13.727 51.138 57.775 1.00 36.30	N
ATOM		C16 444 B 500	13.081 50.396 58.957 1.00 33.50	C
ATOM		C19 444 B 500	12.351 49.166 58.482 1.00 31.89	Č
ATOM		22 444 B 500	12.007 48.424 59.531 1.00 31.80	F
ATOM		21 444 B 500	13.079 48.342 57.710 1.00 31.53	F
ATOM		20 444 B 500	11.241 49.447 57.804 1.00 32.02	F
ATOM			12.784 52.170 57.243 1.00 29.65	C
			12.771 52.362 55.844 1.00 27.35	č
ATOM ATOM		225 444 B 500	11.945 53.318 55.224 1.00 24.31	Č
ATOM		228 444 B 500	11.911 52.985 58.037 1.00 25.39	Ċ
		27 444 B 500	11.911 32.983 38.037 1.00 23.39	C
ATOM				C
ATOM		C26 444 B 500	11.076 54.137 56.001 1.00 22.41	C
ATOM		C33 444 B 500	10.204 55.176 55.214 1.00 21.07	C
ATOM		C34 444 B 500		F
ATOM		36 444 B 500		r F
ATOM		737 444 B 500	8.113 54.341 56.184 1.00 21.82	
ATOM		735 444 B 500	8.986 56.096 57.053 1.00 21.46	F
ATOM		042 444 B 500	9.950 54.781 53.835 1.00 19.04	0
ATOM		C38 444 B 500	10.934 56.551 55.213 1.00 19.74	С
ATOM		39 444 B 500	11.397 56.954 56.422 1.00 18.29	F
ATOM		40 444 B 500	12.019 56.555 54.437 1.00 18.70	F
ATOM		41 444 B 500	10.199 57.555 54.733 1.00 20.76	F
ATOM		LEUC 220	68.407 95.876 84.954 1.00 20.46	N
ATOM		CA LEU C 220	67.795 94.552 85.306 1.00 20.58	C
ATOM		CB LEU C 220	67.642 93.651 84.059 1.00 20.70	C
ATOM		CG LEU C 220	66.308 92.899 83.802 1.00 21.24	C
ATOM		CD1 LEU C 220	66.541 91.475 83.287 1.00 21.11	C
ATOM		CD2 LEU C 220	65.368 92.881 85.008 1.00 21.74	С
ATOM	7793 C		68.596 93.807 86.390 1.00 20.21	C
ATOM	7794 C		69.637 93.195 86.108 1.00 20.49	O
ATOM	7797 N		68.083 93.847 87.621 1.00 19.34	N
ATOM		CA THR C 221	68.701 93.172 88.756 1.00 18.30	C
ATOM		CB THR C 221	68.088 93.684 90.106 1.00 18.36	С
ATOM		OG1 THR C 221	66.687 93.393 90.171 1.00 17.31	О
ATOM		CG2 THR C 221	68.162 95.212 90.228 1.00 17.98	С
ATOM	7809 C		68.554 91.650 88.643 1.00 17.61	С
ATOM	7810 C		67.801 91.155 87.820 1.00 17.01	O
ATOM	7811 N		69.283 90.924 89.484 1.00 17.25	N
ATOM		CA ALA C 222	69.198 89.469 89.543 1.00 16.96	C
ATOM		CB ALA C 222	70.278 88.938 90.408 1.00 16.75	C
ATOM	7819 C	C ALA C 222	67.836 89.005 90.069 1.00 16.95	C

ATOM	7820	O ALA C 222	67.353 87.956 89.647 1.00 16.95	Ο
<b>ATOM</b>	7821	N ALA C 223	67.249 89.795 90.985 1.00 16.64	N
ATOM	7823	CA ALA C 223	65.931 89.534 91.604 1.00 15.98	C
ATOM	7825	CB ALA C 223	65.719 90.403 92.862 1.00 15.97	С
ATOM	7829	C ALA C 223	64.775 89.752 90.689 1.00 15.40	С
ATOM	7830	O ALA C 223	63.752 89.128 90.860 1.00 15.83	0
ATOM	7831	N GLN C 224	64.902 90.685 89.762 1.00 15.28	N
ATOM		CA GLN C 224		C
ATOM		CB GLN C 224	64.125 92.170 87.974 1.00 15.26	С
ATOM		CG GLN C 224	63.680 93.387 88.762 1.00 16.25	C
ATOM		CD GLN C 224	63.977 94.673 88.018 1.00 18.24	C
ATOM		OE1 GLN C 224		C
ATOM		NE2 GLN C 224		N
ATOM	7846		64.006 89.698 87.722 1.00 15.13	C
ATOM	7847			Ö
ATOM		N GLU C 225		N
ATOM		CA GLU C 225	65.519 88.156 86.572 1.00 15.82	C
ATOM		CB GLU C 225	67.020 88.011 86.331 1.00 16.20	C
ATOM		CG GLU C 225	67.485 88.956 85.233 1.00 18.35	C
ATOM		CD GLU C 225	68.906 88.731 84.764 1.00 20.57	Č
ATOM	7859			C
ATOM	7860		•	C
ATOM	7861		64.962 86.894 87.235 1.00 15.54	c
ATOM	7862		64.339 86.086 86.569 1.00 15.47	Ö
		N LEU C 226	65.135 86.751 88.546 1.00 15.44	N
ATOM		CA LEU C 226	64.630 85.576 89.247 1.00 15.46	C
ATOM		CB LEU C 226	65.038 85.553 90.720 1.00 15.43	C
ATOM			64.717 84.249 91.476 1.00 15.47	C
ATOM		CG LEU C 226		C
ATOM		CD1 LEU C 226		
ATOM		CD2 LEU C 226		C
ATOM		C LEU C 226	63.127 85.489 89.191 1.00 15.85	C
ATOM	7881		62.596 84.406 88.999 1.00 15.93	0
ATOM		N MET C 227		N
ATOM			60.986 86.516 89.433 1.00 16.23	C
ATOM		CB MET C 227	60.334 87.695 90.154 1.00 16.93	C
ATOM		CG MET C 227	60.180 88.921 89.351 1.00 19.81	C
ATOM		SD MET C 227	58.651 89.062 88.383 1.00 21.98	S
ATOM		CE MET C 227	58.925 90.815 88.003 1.00 19.64	C
ATOM		C MET C 227	60.429 86.360 88.068 1.00 15.44	C
ATOM		O MET C 227	59.376 85.790 87.945 1.00 15.35	0
ATOM		N ILE C 228	61.125 86.861 87.050 1.00 14.99	N
ATOM		CA ILE C 228	60.671 86.702 85.669 1.00 14.74	C
ATOM		CB ILE C 228	61.512 87.586 84.698 1.00 15.10	C
ATOM		CG1 ILE C 228	61.087 89.057 84.830 1.00 16.01	C
ATOM		CD1 ILE C 228	62.068 90.078 84.206 1.00 15.97	C
ATOM		CG2 ILE C 228	61.363 87.116 83.225 1.00 14.57	С
ATOM		C ILE C 228	60.754 85.239 85.275 1.00 14.01	C
ATOM	7917	O ILE C 228	59.870 84.691 84.626 1.00 12.80	O

ATOM	7918 N GLN C 229	61.834 84.619 85.720 1.00 14.08	N
ATOM	7920 CA GLN C 229	62.113 83.209 85.457 1.00 14.15	С
ATOM	7922 CB GLN C 229	63.500 82.856 85.991 1.00 14.35	Č
ATOM	7925 CG GLN C 229	64.174 81.669 85.348 1.00 15.62	Č
ATOM	7928 CD GLN C 229	65.316 81.142 86.203 1.00 16.13	Č
ATOM	7929 OE1 GLN C 229	65.423 79.947 86.395 1.00 16.72	ŏ
ATOM	7930 NE2 GLN C 229	66.150 82.038 86.730 1.00 15.74	N
ATOM	7933 C GLN C 229	61.057 82.331 86.094 1.00 13.31	c
ATOM	7934 O GLN C 229	60.509 81.470 85.425 1.00 12.93	ő
ATOM	7935 N GLN C 230	60.768 82.592 87.370 1.00 12.70	N
ATOM	7937 CA GLN C 230	59.681 81.946 88.090 1.00 12.92	C
ATOM	7937 CA GLN C 230	59.694 82.346 89.572 1.00 12.73	C
	7942 CG GLN C 230	60.986 81.999 90.285 1.00 12.90	C
ATOM	7945 CD GLN C 230	60.801 81.507 91.697 1.00 13.18	C
ATOM	7946 OE1 GLN C 230	60.394 80.380 91.915 1.00 14.26	
ATOM			O N
ATOM	7947 NE2 GLN C 230	61.136 82.336 92.659 1.00 14.08	
ATOM	7950 C GLN C 230	58.290 82.199 87.455 1.00 13.57	C
ATOM	7951 O GLN C 230		0
ATOM	7952 N LEU C 231		N
ATOM	7954 CA LEU C 231	56.758 83.645 86.217 1.00 15.16	C
ATOM	7956 CB LEU C 231	56.575 85.121 85.855 1.00 15.37	C
ATOM	7959 CG LEU C 231		C
ATOM		55.947 87.467 86.338 1.00 16.51	C
ATOM	7965 CD2 LEU C 231	54.732 85.634 87.621 1.00 16.52	С
ATOM	7969 C LEU C 231	56.678 82.823 84.948 1.00 15.35	С
ATOM	7970 O LEU C 231		О
ATOM		57.795 82.666 84.251 1.00 15.94	N
ATOM	7973 CA VAL C 232	57.812 81.880 83.020 1.00 16.58	C
ATOM	7975 CB VAL C 232	59.152 82.087 82.231 1.00 16.85	С
ATOM		59.405 80.995 81.196 1.00 17.02	C
ATOM	7981 CG2 VAL C 232	59.161 83.455 81.558 1.00 17.16	C
ATOM	7985 C VAL C 232	57.562 80.415 83.366 1.00 17.03	C
<b>ATOM</b>	7986 O VAL C 232	56.726 79.770 82.762 1.00 17.47	O
ATOM	7987 N ALA C 233	58.268 79.899 84.367 1.00 17.59	N
ATOM	7989 CA ALA C 233	58.123 78.508 84.777 1.00 17.55	C
ATOM	7991 CB ALA C 233	59.068 78.211 85.893 1.00 17.17	C
ATOM	7995 C ALA C 233	56.686 78.203 85.202 1.00 18.36	C
ATOM	7996 O ALA C 233	56.148 77.165 84.849 1.00 18.30	O
ATOM	7997 N ALA C 234	56.081 79.114 85.964 1.00 19.19	N
ATOM	7999 CA ALA C 234	54.691 79.022 86.381 1.00 19.97	С
	8001 CB ALA C 234	54.277 80.311 87.092 1.00 20.01	С
	8005 C ALA C 234	53.778 78.803 85.183 1.00 21.16	C
	8006 O ALA C 234	52.928 77.918 85.203 1.00 21.00	O
	8007 N GLN C 235	53.958 79.640 84.160 1.00 22.27	Ň
ATOM		53.189 79.596 82.920 1.00 23.49	C
ATOM	8011 CB GLN C 235	53.658 80.751 82.032 1.00 23.80	Č
	8014 CG GLN C 235	52.924 80.935 80.730 1.00 26.40	Č
	8017 CD GLN C 235	52.370 82.363 80.544 1.00 29.80	Č
1 1 1 0141	551, 52 GERT C 255	JULIO JULIO JULIO 11 1.00 27.00	_

ATOM	8018 OE1 GLN C 235	53.130 83.337 80.427 1.00 30.99	0
ATOM	8019 NE2 GLN C 235		N
ATOM	8022 C GLN C 235	53.307 78.225 82.200 1.00 24.09	C
ATOM	8023 O GLN C 235	52.339 77.729 81.585 1.00 23.49	O
ATOM	8024 N LEU C 236	54.482 77.611 82.306 1.00 25.22	N
ATOM		54.736 76.290 81.724 1.00 26.63	C
ATOM	8028 CB LEU C 236	56.226 75.973 81.743 1.00 26.79	Č
ATOM	8031 CG LEU C 236	56.787 75.400 80.451 1.00 28.16	Č
ATOM	8033 CD1 LEU C 236	56.763 76.459 79.351 1.00 29.45	Č
ATOM	8037 CD2 LEU C 236	58.202 74.896 80.685 1.00 29.39	Č
ATOM	8041 C LEU C 236	54.006 75.184 82.456 1.00 27.59	C
ATOM	8042 O LEU C 236	53.410 74.312 81.836 1.00 27.49	ŏ
ATOM	8043 N GLN C 237	54.060 75.242 83.785 1.00 29.25	N
ATOM	8045 CA GLN C 237	53.414 74.268 84.682 1.00 30.40	C
ATOM		53.867 74.499 86.135 1.00 30.10	C
ATOM	8050 CG GLN C 237	55.380 74.341 86.351 1.00 30.39	C
ATOM		55.922 75.063 87.603 1.00 30.44	Č
		55.217 75.893 88.242 1.00 31.79	O
ATOM ATOM		57.179 74.752 87.950 1.00 26.66	N
		51.879 74.315 84.603 1.00 31.76	C
ATOM		51.201 73.303 84.769 1.00 31.65	Ö
ATOM		51.337 75.494 84.350 1.00 33.85	N
ATOM	8062 CA CYS C 238	49.903 75.652 84.231 1.00 36.00	C
ATOM	8064 CB CYS C 238	49.534 77.116 84.461 1.00 36.02	C
ATOM	8067 SG CYS C 238	49.621 77.474 86.236 1.00 37.59	S
ATOM		49.386 75.105 82.891 1.00 37.79	C
ATOM		48.207 74.813 82.764 1.00 37.75	Ö
ATOM	8069 O CYS C 238 8070 N ASN C 239	50.285 74.946 81.921 1.00 40.34	N
ATOM		50.019 74.205 80.698 1.00 42.63	C
ATOM	8072 CA ASN C 239	51.118 74.510 79.681 1.00 42.83	C
ATOM			C
ATOM		50.786 74.006 78.315 1.00 44.12	O
ATOM		49.798 74.422 77.728 1.00 46.84 51.598 73.085 77.798 1.00 46.09	N
ATOM	8079 ND2 ASN C 239	49,939 72.691 80.963 1.00 44.86	
ATOM	8082 C ASN C 239	50.957 71.989 80.997 1.00 44.86	C O
ATOM	8083 O ASN C 239		N
ATOM		48.732 72.182 81.187 1.00 47.39 48.550 70.748 81.424 1.00 49.15	
ATOM		47.781 70.503 82.729 1.00 49.57	C C
ATOM			
ATOM		48.507 70.929 84.012 1.00 50.75	C C
ATOM		47.948 70.193 85.265 1.00 52.28	
ATOM		47.419 71.177 86.342 1.00 53.52	C
ATOM		47.743 70.775 87.756 1.00 53.89	N
ATOM		47.804 70.106 80.254 1.00 50.30	С
ATOM		47.424 68.938 80.323 1.00 50.42	O
	8106 N ARG C 241	47.601 70.873 79.184 1.00 51.69	N
ATOM		46.918 70.388 77.987 1.00 52.70	C
	8110 CB ARG C 241	46.974 71.449 76.886 1.00 52.54	C C
ATOM	8113 CG ARG C 241	46.146 72.674 77.168 1.00 51.29	C

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ATOM	8116 CD ARG C 241	46.528 73.889 76.361 1.00 49.48	С
		45.874 75.080 76.905 1.00 48.48	
		45.827 76.268 76.306 1.00 47.84	C
		46.379 76.469 75.115 1.00 47.82	N
		45.207 77.269 76.909 1.00 48.35	N
		47.557 69.102 77.465 1.00 54.27	С
		46.900 68.060 77.338 1.00 54.32	0
		48.850 69.180 77.173 1.00 55.92	N
		49.563 68.050 76.591 1.00 57.26	С
		51.019 68.420 76.283 1.00 57.29	C
		51.473 69.444 77.157 1.00 58.10	0
		49.477 66.799 77.479 1.00 58.42	С
		49.664 65.676 76.975 1.00 59.11	0
		49.206 66.980 78.781 1.00 59.46	N
		48.865 65.854 79.686 1.00 60.31	С
		50.077 65.405 80.541 1.00 60.66	C
		50.153 66.059 81.920 1.00 62.56	Č
		50.147 65.278 83.098 1.00 64.33	
		50.223 65.895 84.379 1.00 64.98	Č
ATOM	8153 CZ PHE C 243	50.311 67.300 84.473 1.00 64.86	Č
ATOM	8155 CE2 PHE C 243	50.329 68.078 83.298 1.00 64.42	Č
		50.251 67.455 82.038 1.00 63.80	Č
		47.669 66.186 80.583 1.00 60.21	c
		46.533 65.826 80.274 1.00 60.43	Ö
		39.626 65.075 76.301 1.00 41.86	Ň
		38.541 65.296 77.242 1.00 42.05	C
		38.891 66.465 78.181 1.00 42.47	č
		40.049 66.219 79.139 1.00 44.16	Č
ATOM	8171 CD I VS C 248	39 649 65 197 80 180 1 00 46 13	č
ATOM	8174 CF I VS C 248	39.649 65.197 80.180 1.00 46.13 40.526 65.235 81.417 1.00 46.95	č
		40.322 63.973 82.231 1.00 47.61	N
		37.239 65.645 76.521 1.00 41.37	c `
		36.147 65.300 76.996 1.00 41.73	Õ
		37.379 66.289 75.357 1.00 40.21	N
		36.464 67.352 74.905 1.00 39.12	C
	8187 CB VAL C 249	37.311 68.530 74.334 1.00 39.26	č
	8189 CG1 VAL C 249	36.471 69.495 73.527 1.00 39.31	C
	8193 CG2 VAL C 249	38.051 69.262 75.467 1.00 39.63	C
	8197 C VAL C 249	35.472 66.941 73.834 1.00 37.78	c
	8198 O VAL C 249	35.825 66.168 72.963 1.00 37.84	o
	8199 N THR C 250	34.256 67.496 73.880 1.00 36.34	N
	8201 CA THR C 250	33.251 67.297 72.826 1.00 35.50	C
	8201 CA THR C 250	32.101 68.355 72.890 1.00 35.49	c
	8205 OG1 THR C 250	31.341 68.188 74.086 1.00 35.88	O
	8207 CG2 THR C 250	31.040 68.134 71.808 1.00 33.88	Č
	8211 C THR C 250	33.918 67.351 71.458 1.00 34.68	c
	8212 O THR C 250	34.625 68.304 71.143 1.00 34.47	0
ATOM		33.698 66.327 70.643 1.00 33.91	N
AIOM	0213 IV INO C 231	33,070 00.327 70.073 1.00 33.71	14

ATOM	8214 CA PRO C 251	34.356 66.253 69.339 1.00 33.43	С
ATOM	8216 CB PRO C 251	33.774 64.977 68.720 1.00 33.40	С
<b>ATOM</b>	8219 CG PRO C 251	33.089 64.256 69.797 1.00 33.58	С
<b>ATOM</b>	8222 CD PRO C 251	32.787 65.193 70.878 1.00 33.69	С
<b>ATOM</b>	8225 C PRO C 251	34.011 67.452 68.462 1.00 32.89	С
<b>ATOM</b>	8226 O PRO C 251	32.862 67.908 68.471 1.00 32.37	Ο
ATOM	8227 N TRP C 252	34.986 67.957 67.718 1.00 32.56	N
<b>ATOM</b>	8229 CA TRP C 252	34.679 68.934 66.686 1.00 32.35	C
<b>ATOM</b>	8231 CB TRP C 252	35.944 69.601 66.140 1.00 32.11	C
<b>ATOM</b>	8234 CG TRP C 252	35.644 70.693 65.138 1.00 29.88	C
ATOM	8235 CD1 TRP C 252	35.682 70.590 63.784 1.00 28.00	C
<b>ATOM</b>	8237 NE1 TRP C 252	35.329 71.785 63.212 1.00 27.26	N
<b>ATOM</b>	8239 CE2 TRP C 252	35.055 72.690 64.201 1.00 26.41	С
<b>ATOM</b>	8240 CD2 TRP C 252	35.243 72.035 65.427 1.00 27.25	C
<b>ATOM</b>	8241 CE3 TRP C 252	35.012 72.751 66.608 1.00 27.05	C
<b>ATOM</b>	8243 CZ3 TRP C 252	34.615 74.085 66.525 1.00 26.17	С
<b>ATOM</b>	8245 CH2 TRP C 252	34.447 74.706 65.284 1.00 25.83	C
<b>ATOM</b>	8247 CZ2 TRP C 252	34.661 74.028 64.116 1.00 25.44	С
<b>ATOM</b>	8249 C TRP C 252	33.952 68.186 65.570 1.00 32.80	C
<b>ATOM</b>	8250 O TRP C 252	34.509 67.232 65.025 1.00 32.69	Ο
<b>ATOM</b>	8251 N PRO C 253	32.713 68.574 65.253 1.00 33.34	N
<b>ATOM</b>	8252 CA PRO C 253	31.984 67.939 64.147 1.00 33.88	С
<b>ATOM</b>	8254 CB PRO C 253	30.613 68.655 64.147 1.00 33.74	С
<b>ATOM</b>	8257 CG PRO C 253	30.713 69.791 65.065 1.00 33.48	С
ATOM	8260 CD PRO C 253	31.897 69.594 65.939 1.00 33.29	C
ATOM	8263 C PRO C 253	32.697 68.001 62.763 1.00 34.60	C
<b>ATOM</b>	8264 O PRO C 253	32.411 68.878 61.939 1.00 34.89	О
ATOM	8265 N ALA C 254	33.605 67.045 62.532 1.00 35.09	N
<b>ATOM</b>	8267 CA ALA C 254	34.331 66.899 61.271 1.00 35.12	C
ATOM	8269 CB ALA C 254	35.663 66.175 61.496 1.00 35.06	С
ATOM	8273 C ALA C 254	33.462 66.113 60.299 1.00 34.95	С
<b>ATOM</b>	8274 O ALA C 254	32.531 66.666 59.720 1.00 34.81	О
ATOM	8275 N GLN C 259	26.034 75.361 59.136 1.00 34.42	N
<b>ATOM</b>	8277 CA GLN C 259	24.632 75.823 59.219 1.00 34.77	С
ATOM	8279 CB GLN C 259	24.152 76.445 57.876 1.00 35.11	С
ATOM	8282 CG GLN C 259	23.924 78.004 57.935 1.00 36.15	С
<b>ATOM</b>	8285 CD GLN C 259	22.642 78.488 57.206 1.00 37.82	C
ATOM	8286 OE1 GLN C 259	22.260 79.675 57.322 1.00 39.20	О
<b>ATOM</b>	8287 NE2 GLN C 259	21.988 77.583 56.462 1.00 35.43	N
ATOM	8290 C GLN C 259	23.602 74.780 59.740 1.00 34.03	C
ATOM	8291 O GLN C 259	22.420 75.113 59.872 1.00 33.75	О
<b>ATOM</b>	8292 N SER C 260	24.036 73.549 60.044 1.00 33.33	Ν
ATOM	8294 CA SER C 260	23.219 72.625 60.853 1.00 32.74	C
ATOM	8296 CB SER C 260	23.827 71.210 60.892 1.00 32.55	C
ATOM	8299 OG SER C 260	23.138 70.349 61.793 1.00 31.99	О
ATOM	8301 C SER C 260	23.115 73.227 62.262 1.00 32.60	C
ATOM	8302 O SER C 260	24.105 73.762 62.787 1.00 32.47	0
ATOM	8303 N ARG C 261	21.920 73.170 62.858 1.00 32.19	N

ATOM	8305 CA ARG C 261	21.679 73.830 64.144 1.00 31.83	C
ATOM	8307 CB ARG C 261	20.199 74.230 64.335 1.00 31.96	C
ATOM	8310 CG ARG C 261	19.869 75.702 63.931 1.00 33.08	C
ATOM	8313 CD ARG C 261	18.946 75.860 62.706 1.00 34.91	C
<b>ATOM</b>	8316 NE ARG C 261	17.545 75.543 63.025 1.00 36.69	N
ATOM	8318 CZ ARG C 261	16.934 74.357 62.826 1.00 37.43	С
ATOM	8319 NH1 ARG C 261	17.575 73.322 62.288 1.00 37.47	N
ATOM	8322 NH2 ARG C 261	15.655 74.204 63.171 1.00 37.56	N
ATOM	8325 C ARG C 261	22.194 72.974 65.295 1.00 31.11	C
ATOM	8326 O ARG C 261	22.808 73.506 66.213 1.00 31.05	Ο
<b>ATOM</b>	8327 N ASP C 262	21.975 71.661 65.234 1.00 30.40	N
ATOM	8329 CA ASP C 262	22.572 70.736 66.206 1.00 29.93	C
ATOM	8331 CB ASP C 262	22.117 69.305 65.951 1.00 30.03	C
ATOM	8334 CG ASP C 262	20.616 69.111 66.142 1.00 30.19	С
ATOM	8335 OD1 ASP C 262	19.944 68.672 65.187 1.00 30.32	Ο
	8336 OD2 ASP C 262	20.015 69.349 67.205 1.00 31.11	Ο
ATOM	8337 C ASP C 262	24.108 70.782 66.164 1.00 29.57	С
ATOM	8338 O ASP C 262	24.756 70.638 67.205 1.00 29.64	Ο
ATOM	8339 N ALA C 263	24.679 70.986 64.968 1.00 29.00	N
ATOM	8341 CA ALA C 263	26.142 71.119 64.782 1.00 28.34	С
ATOM	8343 CB ALA C 263	26.521 70.866 63.329 1.00 28.10	C
ATOM	8347 C ALA C 263	26.697 72.473 65.227 1.00 28.05	С
ATOM	8348 O ALA C 263	27.877 72.586 65.584 1.00 28.04	O
ATOM		25.850 73.501 65.169 1.00 27.68	N
ATOM	8351 CA ARG C 264	26.188 74.837 65.655 1.00 27.18	С
ATOM	8353 CB ARG C 264	25.058 75.834 65.322 1.00 27.74	С
ATOM	8356 CG ARG C 264	25.486 77.267 64.952 1.00 30.13	С
ATOM	8359 CD ARG C 264	24.575 77.961 63.902 1.00 33.50	С
ATOM	8362 NE ARG C 264	25.125 77.859 62.540 1.00 37.36	N
ATOM	8364 CZ ARG C 264		С
	8365 NH1 ARG C 264	26.528 79.731 62.662 1.00 41.58	N
	8368 NH2 ARG C 264		N
ATOM	8371 C ARG C 264	26.391 74.703 67.159 1.00 25.99	С
ATOM	8372 O ARG C 264	27.453 75.008 67.647 1.00 25.58	O
	8373 N GLN C 265	25,374 74.190 67.854 1.00 24.98	N
	8375 CA GLN C 265	25.361 73.998 69.305 1.00 24.58	С
	8377 CB GLN C 265	24.019 73.382 69.729 1.00 25.17	С
	8380 CG GLN C 265	23.785 73.104 71.245 1.00 27.23	C
	8383 CD GLN C 265	22.673 72.002 71.480 1.00 31.77	C
	8384 OE1 GLN C 265	21.664 71.909 70.732 1.00 31.49	O
	8385 NE2 GLN C 265	22.879 71.169 72.513 1.00 34.62	N
ATOM	8388 C GLN C 265	26.488 73.106 69.779 1.00 23.29	C
ATOM	8389 O GLN C 265	27.023 73.314 70.868 1.00 22.92	Ö
ATOM	8390 N GLN C 266	26.847 72.114 68.972 1.00 21.85	N
ATOM	8392 CA GLN C 266	27.948 71.227 69.327 1.00 20.84	C
ATOM	8394 CB GLN C 266	27.961 69.976 68.460 1.00 21.06	Č
	8397 CG GLN C 266	29.137 69.048 68.790 1.00 21.74	Č
	8400 CD GLN C 266	29.085 67.730 68.055 1.00 22.54	Č
VATIO TAT	0.00 CD ODIA C 200	27,000 01.130 00.033 1.00 22.37	_

		28.024 67.307 67.577 1.00 22.20	Ο
	8402 NE2 GLN C 266		N
ATOM	8405 C GLN C 266	29.299 71.917 69.233 1.00 19.52	С
ATOM			О
	8407 N ARG C 267	29.485 72.749 68.221 1.00 18.43	N
	8409 CA ARG C 267	30.707 73.551 68.113 1.00 17.70	С
ATOM	8411 CB ARG C 267	30.783 74.267 66.771 1.00 18.24	С
ATOM	8414 CG ARG C 267	31.132 73.348 65.639 1.00 20.40	C
ATOM	8417 CD ARG C 267	31.076 74.008 64.290 1.00 23.57	С
ATOM	8420 NE ARG C 267	31.321 73.044 63.220 1.00 25.63	N
ATOM	8422 CZ ARG C 267	30.546 72.872 62.166 1.00 27.98	С
		29.445 73.600 62.004 1.00 28.84	N
ATOM	8426 NH2 ARG C 267	30.875 71.960 61.264 1.00 29.05	N
ATOM	8429 C ARG C 267	30.840 74.581 69.204 1.00 15.71	С
ATOM	8430 O ARG C 267	31.925 74.870 69.603 1.00 14.98	Ο
ATOM	8431 N PHE C 268	29.729 75.146 69.652 1.00 14.61	N
ATOM	8433 CA PHE C 268	29.735 76.136 70.714 1.00 14.06	С
ATOM	8435 CB PHE C 268	28.362 76.820 70.846 1.00 13.77	С
ATOM	8438 CG PHE C 268	28.190 77.607 72.113 1.00 13.29	С
		28.887 78.764 72.316 1.00 14.01	С
		28.730 79.493 73.497 1.00 15.81	С
	8443 CZ PHE C 268		С
		27.157 77.891 74.275 1.00 15.55	С
			С
	8449 C PHE C 268	30.165 75.434 72.001 1.00 13.72	C
ATOM			0
			N
		30.017 73.470 73.435 1.00 13.65	С
		29.192 72.179 73.536 1.00 13.09	С
	8459 C ALA C 269		C
ATOM		32.242 73.449 74.361 1.00 12.70	Ō
		32.021 72.690 72.252 1.00 14.13	N
		33.442 72.440 72.035 1.00 14.56	C
		33.746 72.133 70.545 1.00 14.66	Č
		35.204 71.893 70.277 1.00 16.74	Č
		35.857 70.744 70.672 1.00 18.73	N
	8471 CE1 HIS C 270		C
	8473 NE2 HIS C 270	37.340 71.987 69.764 1.00 18.65	N
	8475 CD2 HIS C 270	36.150 72.677 69.707 1.00 18.49	C
	8477 C HIS C 270	34.244 73.635 72.510 1.00 14.41	c
	8478 O HIS C 270	35.193 73.499 73.258 1.00 13.94	Ö
	8479 N PHE C 271	33.821 74.814 72.077 1.00 15.11	N
	8481 CA PHE C 271	34.479 76.089 72.388 1.00 15.73	Ċ
	8483 CB PHE C 271	33.773 77.198 71.613 1.00 15.88	Č
	8486 CG PHE C 271	34.476 77.594 70.389 1.00 18.73	č
	8487 CD1 PHE C 271	34.874 76.651 69.473 1.00 20.86	C
	8489 CEI PHE C 271		č
	8491 CZ PHE C 271	35.873 78.333 68.072 1.00 23.46	C
ATOM	0-71 CZ 111E C 2/1	33.073 70.333 00.072 1.00 23.40	C

ATOM	8493 CE2 PHE C 271	35.490 79.302 68.989 1.00 25.08	С
ATOM	8495 CD2 PHE C 271	34.790 78.926 70.156 1.00 23.86	C
ATOM	8497 C PHE C 271	34.420 76.429 73.867 1.00 15.43	С
ATOM	8498 O PHE C 271		0
ATOM			N
ATOM		32.954 76.322 75.815 1.00 16.18	C
ATOM			Č
		30.662 77.093 76.260 1.00 18.44	O
ATOM			C
		31.115 74.947 76.905 1.00 15.83	_
	8511 C THR C 272		C
	8512 O THR C 272		0
ATOM			N
ATOM		35.168 73.407 76.990 1.00 16.01	C
<b>ATOM</b>	8517 CB GLU C 273	34.916 71.944 76.588 1.00 15.86	C
ATOM	8520 CG GLU C 273	33.509 71.506 76.950 1.00 17.12	C
	8523 CD GLU C 273		C
	8524 OE1 GLU C 273	31.896 70.177 75.770 1.00 17.58	0
	8525 OE2 GLU C 273		0
		36.627 73.783 76.788 1.00 15.47	C
	8527 O GLU C 273		ŏ
	8528 N LEU C 274		N
		38.303 74.947 75.535 1.00 15.67	C
ATOM			C
ATOM		38.675 75.292 74.069 1.00 15.77	
		38.623 74.150 73.040 1.00 16.76	C
	8537 CD1 LEU C 274		C
	8541 CD2 LEU C 274		С
	8545 C LEU C 274		С
		39.422 76.250 77.215 1.00 15.58	O
<b>ATOM</b>	8547 N ALA C 275	37.479 77.076 76.517 1.00 14.12	N
ATOM	8549 CA ALA C 275	37.538 78.172 77.473 1.00 14.24	C
ATOM		36.372 79.116 77.314 1.00 14.24	С
ATOM		37.621 77.680 78.916 1.00 14.53	С
ATOM		38.372 78.231 79.725 1.00 14.45	0
		36.878 76.640 79.258 1.00 14.52	N
		37.017 76.125 80.613 1.00 14.89	C
	8561 CB ILE C 276	35.952 75.057 80.921 1.00 14.62	č
	8563 CG1 ILE C 276	34.659 75.745 81.324 1.00 14.39	C
			C
		33.486 74.802 81.357 1.00 14.79	C
	8570 CG2 ILE C 276	36.378 74.145 82.042 1.00 15.05	_
	8574 C ILE C 276	38.472 75.648 80.894 1.00 15.15	C
	8575 O ILE C 276	39.021 75.983 81.938 1.00 15.88	O
	8576 N ILE C 277	39.105 74.917 79.986 1.00 14.95	N
		40.508 74.571 80.181 1.00 15.24	С
ATOM	8580 CB ILE C 277		C
ATOM	8582 CG1 ILE C 277	40.395 72.418 78.849 1.00 14.81	C
<b>ATOM</b>	8585 CD1 ILE C 277	40.549 71.790 77.473 1.00 14.39	C
		42.569 73.589 79.115 1.00 15.22	С
	8593 C ILE C 277	41.365 75.835 80.453 1.00 16.14	С

<b>ATOM</b>	8594	O ILE C 277	42.272 75.817 81.306 1.00 15.48	Ο
<b>ATOM</b>	8595	N SER C 278	41.081 76.937 79.763 1.00 17.05	N
ATOM	8597	CA SER C 278	41.862 78.159 79.982 1.00 18.26	С
ATOM		CB SER C 278	41.579 79.195 78.913 1.00 18.25	С
ATOM			42.183 78.803 77.710 1.00 21.13	Ο
ATOM	8604		41.606 78.794 81.328 1.00 18.55	С
ATOM	8605		42.535 79.250 81.976 1.00 18.73	O
ATOM		N VALC 279	40.337 78.854 81.717 1.00 19.13	N
ATOM		CA VAL C 279	39.946 79.399 82.996 1.00 19.38	C
ATOM		CB VAL C 279	38.422 79.263 83.218 1.00 19.63	Č
ATOM		CG1 VAL C 279	38.068 79.485 84.675 1.00 19.71	C
ATOM		CG2 VAL C 279	37.673 80.259 82.351 1.00 19.37	C
ATOM		C VAL C 279	40.742 78.717 84.107 1.00 19.42	c
ATOM	8621		41.283 79.385 84.977 1.00 18.84	ŏ
		N GLN C 280	40.844 77.397 84.038 1.00 20.05	N
ATOM		CA GLN C 280	41.561 76.610 85.038 1.00 20.09	C
ATOM		CB GLN C 280	41.387 75.099 84.779 1.00 21.16	c
ATOM				C
ATOM		CG GLN C 280	39.938 74.621 85.031 1.00 22.87	C
ATOM		CD GLN C 280	39.677 73.134 84.764 1.00 23.27	
ATOM		OE1 GLN C 280	40.022 72.595 83.702 1.00 23.04	0
ATOM		NE2 GLN C 280	39.007 72.493 85.708 1.00 21.18	N
ATOM	8637		43.028 76.992 85.069 1.00 21.43	C
ATOM	8638		43.582 77.252 86.122 1.00 22.17	0
ATOM		N GLU C 281	43.648 77.043 83.906 1.00 21.62	N
ATOM		CA GLU C 281	45.040 77.401 83.811 1.00 22.14	C
ATOM		CB GLU C 281	45.458 77.362 82.350 1.00 22.58	С
ATOM		CG GLU C 281	45.460 75.961 81.784 1.00 23.93	C
ATOM	8649	CD GLU C 281	46.005 75.892 80.377 1.00 25.78	C
<b>ATOM</b>	8650		46.484 76.928 79.869 1.00 25.80	О
<b>ATOM</b>	8651	OE2 GLU C 281	45.953 74.781 79.794 1.00 28.08	О
<b>ATOM</b>	8652	C GLU C 281	45.348 78.793 84.361 1.00 22.28	С
<b>ATOM</b>	8653	O GLU C 281	46.351 79.012 85.047 1.00 22.14	О
<b>ATOM</b>	8654	N ILE C 282	44.504 79.745 84.024 1.00 22.54	N
ATOM	8656	CA ILE C 282	44.670 81.095 84.519 1.00 22.92	C
<b>ATOM</b>	8658	CB ILE C 282	43.659 82.024 83.863 1.00 22.97	C
ATOM	8660	CG1 ILE C 282	43.989 82.210 82.383 1.00 23.12	С
ATOM		CD1 ILE C 282	42.862 82.862 81.586 1.00 23.40	C
ATOM		CG2 ILE C 282	43.652 83.368 84.588 1.00 24.23	С
ATOM			44.509 81.164 86.050 1.00 23.31	C
ATOM			45.172 81.981 86.687 1.00 24.19	O
		N VAL C 283	43.623 80.349 86.636 1.00 22.61	N
		CA VAL C 283	43.436 80.374 88.075 1.00 22.32	C
ATOM		CB VAL C 283	42.161 79.568 88.543 1.00 22.19	Č
ATOM		CG1 VAL C 283	42,222 79.274 90.040 1.00 21.88	C
ATOM		CG2 VAL C 283	40.885 80.333 88.239 1.00 20.78	C
ATOM	8687		44.711 79.834 88.757 1.00 22.63	c
ATOM	8688		45.164 80.367 89.776 1.00 22.75	ŏ
ATOM			45.279 78.771 88.202 1.00 22.59	N
ATOM	0009	11 AUI C 204	75.217 10.111 00.202 1.00 22.37	7.4

ATOM	8691 CA ASP C 284	46.484 78.174 88.761 1.00 22.78	C
ATOM	8693 CB ASP C 284	46.843 76.887 88.033 1.00 23.50	С
ATOM	8696 CG ASP C 284	45.915 75.767 88.355 1.00 25.75	С
ATOM	8697 OD1 ASP C 284	45,928 74.776 87.589 1.00 30.52	O
ATOM	8698 OD2 ASP C 284	45.144 75.788 89.345 1.00 29.12	0
ATOM	8699 C ASP C 284	47.634 79.119 88.620 1.00 22.09	С
ATOM	8700 O ASP C 284	48.455 79.250 89.520 1.00 22.04	0
ATOM	8701 N PHE C 285	47.697 79.781 87.473 1.00 21.76	N
ATOM	8703 CA PHE C 285	48.791 80.695 87.216 1.00 21.35	C
ATOM	8705 CB PHE C 285	48.822 81.161 85.760 1.00 20.96	С
ATOM	8708 CG PHE C 285	49.906 82.156 85.483 1.00 20.14	C
ATOM		51.211 81.785 85.451 1.00 20.14	С
ATOM		52.190 82.731 85.214 1.00 19.57	С
ATOM	8713 CZ PHE C 285	51.880 84.028 85.036 1.00 17.52	С
ATOM		50.621 84.408 85.070 1.00 20.11	С
ATOM	8717 CD2 PHE C 285	49.618 83.478 85.296 1.00 21.14	C
ATOM	8719 C PHE C 285	48.748 81.873 88.208 1.00 21.51	С
ATOM	8720 O PHE C 285	49.776 82.187 88.819 1.00 21.70	O
ATOM	8721 N ALA C 286	47.573 82.476 88.411 1.00 21.08	N
ATOM	8723 CA ALA C 286	47.447 83.633 89.303 1.00 21.05	С
<b>ATOM</b>	8725 CB ALA C 286	46.036 84.111 89.347 1.00 20.86	С
<b>ATOM</b>	8729 C ALA C 286	47.933 83.331 90.717 1.00 21.37	С
<b>ATOM</b>	8730 O ALA C 286	48.581 84.183 91.346 1.00 20.40	О
ATOM	8731 N LYS C 287	47.632 82.108 91.181 1.00 21.89	N
ATOM	8733 CA LYS C 287	48.037 81.617 92.494 1.00 22.91	C
<b>ATOM</b>	8735 CB LYS C 287	47.450 80.200 92.767 1.00 24.20	C
<b>ATOM</b>	8738 CG LYS C 287	45.998 80.062 93.408 1.00 28.09	C
ATOM	8741 CD LYS C 287	45.073 81.324 93.216 1.00 33.90	C
ATOM	8744 CE LYS C 287	43.517 81.009 93.140 1.00 36.88	С
ATOM	8747 NZ LYS C 287	42.894 80.562 94.443 1.00 36.46	N
ATOM	8751 C LYS C 287	49.568 81.580 92.624 1.00 22.37	C
ATOM	8752 O LYS C 287	50.078 81.671 93.730 1.00 22.07	0
ATOM	8753 N GLN C 288	50.289 81.419 91.507 1.00 22.16	N
ATOM		51.767 81.415 91.511 1.00 22.02	С
ATOM	8757 CB GLN C 288	52.344 80.364 90.525 1.00 22.35	С
ATOM	8760 CG GLN C 288	52.179 78.882 90.981 1.00 24.94	С
ATOM	8763 CD GLN C 288	53.223 78.394 92.061 1.00 29.71	С
ATOM	8764 OE1 GLN C 288	53.582 79.133 93.000 1.00 33.10	О
ATOM	8765 NE2 GLN C 288	53.689 77.148 91.914 1.00 30.72	N
ATOM	8768 C GLN C 288	52.403 82.787 91.271 1.00 20.81	C
ATOM	8769 O GLN C 288	53.608 82.910 91.281 1.00 20.00	О
ATOM	8770 N VAL C 289	51.595 83.814 91.054 1.00 20.62	N
		52.101 85.189 90.927 1.00 20.38	С
ATOM	8774 CB VAL C 289	51.119 86.084 90.141 1.00 20.08	С
ATOM	8776 CG1 VAL C 289	51.611 87.489 90.103 1.00 20.13	C
ATOM	8780 CG2 VAL C 289	50.922 85.567 88.728 1.00 19.83	С
ATOM	8784 C VALC 289	52.285 85.775 92.337 1.00 20.40	С
ATOM	8785 O VALC 289	51.306 85.863 93.089 1.00 20.53	О

ATOM	8786 N PRO C 290	53.508 86.160 92.722 1.00 20.04	N
		53.716 86.672 94.083 1.00 19.48	С
ATOM	8789 CB PRO C 290	55.193 87.062 94.105 1.00 19.41	C
ATOM	8792 CG PRO C 290	55,833 86,367 92,956 1.00 19.42	C
ATOM	8795 CD PRO C 290	54.763 86.136 91.944 1.00 19.87	Ċ
ATOM	8798 C PRO C 290	52.819 87.879 94.342 1.00 19.25	Č
ATOM	8799 O PRO C 290	52.659 88.740 93.473 1.00 18.38	Ö
ATOM	8800 N GLY C 291	52.218 87.919 95.525 1.00 19.53	N
ATOM	8802 CA GLY C 291	51.323 89.009 95.886 1.00 19.72	C
ATOM	8805 C GLY C 291	49.852 88.656 95.740 1.00 20.00	C
	8806 O GLY C 291	49.038 89.109 96.516 1.00 19.68	Ö
ATOM	8807 N PHE C 292	49.511 87.845 94.738 1.00 20.11	N
ATOM		48.134 87.538 94.451 1.00 19.77	C
ATOM	8809 CA PHE C 292		
ATOM		48.020 86.597 93.250 1.00 19.74	С
	8814 CG PHE C 292	46.603 86.360 92.821 1.00 18.39	C
ATOM	8815 CD1 PHE C 292	45.900 87.341 92.157 1.00 17.92	C
ATOM	8817 CE1 PHE C 292	44.579 87.142 91.817 1.00 17.58	C
ATOM	8819 CZ PHE C 292	43.960 85.950 92.128 1.00 16.95	C
ATOM		44.657 84.976 92.776 1.00 15.96	C
ATOM	8823 CD2 PHE C 292	45.957 85.189 93.145 1.00 16.46	С
ATOM	8825 C PHE C 292	47.458 86.946 95.661 1.00 20.36	C
ATOM	8826 O PHE C 292	46.442 87.449 96.083 1.00 20.37	0
ATOM	8827 N LEU C 293	48.026 85.891 96.234 1.00 21.32	N
ATOM	8829 CA LEU C 293	47.397 85.212 97.373 1.00 21.95	С
<b>ATOM</b>	8831 CB LEU C 293	47.998 83.815 97.597 1.00 21.81	С
ATOM	8834 CG LEU C 293	47.667 82.680 96.614 1.00 21.20	С
<b>ATOM</b>	8836 CD1 LEU C 293	48.479 81.475 96.968 1.00 21.14	C
<b>ATOM</b>	8840 CD2 LEU C 293	46.203 82.287 96.583 1.00 21.07	С
ATOM	8844 C LEU C 293	47.476 86.023 98.671 1.00 23.07	C
ATOM	8845 O LEU C 293	46.901 85.605 99.690 1.00 23.23	О
ATOM	8846 N GLN C 294	48.204 87.149 98.633 1.00 24.35	N
ATOM	8848 CA GLN C 294	48.249 88.137 99.730 1.00 25.42	С
ATOM	8850 CB GLN C 294	49.418 89.148 99.588 1.00 26.23	С
ATOM	8853 CG GLN C 294	50.695 88.853 100.392 1.00 29.60	C
	8856 CD GLN C 294	51.547 87.742 99.774 1.00 35.06	С
	8857 OE1 GLN C 294	52.159 87.936 98.705 1.00 38.85	Ō
	8858 NE2 GLN C 294	51.576 86.564 100.433 1.00 36.90	N
	8861 C GLN C 294	46.944 88.916 99.799 1.00 24.88	C
	8862 O GLN C 294	46.451 89.156 100.878 1.00 25.51	Ō
	8863 N LEU C 295	46.407 89.322 98.651 1.00 24.46	N
	8865 CA LEU C 295	45.109 89.987 98.571 1.00 24.18	Ċ
	8867 CB LEU C 295	44.701 90.228 97.101 1.00 24.14	c
	8870 CG LEU C 295	45.531 91.273 96.334 1.00 25.01	C
	8872 CD1 LEU C 295	45.279 91.275 96.334 1.00 25.01	C
	8876 CD2 LEU C 295	45.279 91.233 94.831 1.00 25.31 45.272 92.690 96.830 1.00 26.82	C
	8880 C LEU C 295	43.272 92.090 96.830 1.00 20.82	C
	8881 O LEU C 295	44.241 87.900 99.255 1.00 23.57	O
ATOM	8882 N GLY C 296	43.014 89.692 99.766 1.00 23.81	N

			200	
ATOM	8884	CA GLY C 296	41.932 88.918 100.359 1.00 24.24	С
ATOM	8887	C GLY C 296	41.176 88.180 99.282 1.00 24.60	C
ATOM	8888	O GLY C 296	41.317 88.516 98.141 1.00 25.20	O
<b>ATOM</b>	8889	N ARG C 297	40.382 87.178 99.616 1.00 25.29	N
ATOM	8891	CA ARG C 297	39.701 86.402 98.580 1.00 25.96	C
<b>ATOM</b>	8893	CB ARG C 297	38.886 85.236 99.167 1.00 26.96	C
ATOM	8896	CG ARG C 297	38.658 84.012 98.216 1.00 30.64	С
ATOM	8899	CD ARG C 297	38.116 82.739 98.985 1.00 36.42	С
ATOM	8902	<b>NE ARG C 297</b>	37.400 81.748 98.153 1.00 40.44	N
		<b>CZ ARG C 297</b>	36.145 81.884 97.675 1.00 43.02	С
			35.423 82.984 97.920 1.00 43.84	N
			35.607 80.911 96.939 1.00 43.40	N
		C ARG C 297		С
		O ARG C 297		0
		N GLU C 298		N
			37.149 89.043 97.548 1.00 23.70	С
		CB GLU C 298		C
		CG GLU C 298		Ċ
		CD GLU C 298		C
		OE1 GLU C 298		Ō
		OE2 GLU C 298		Ō
ATOM		C GLU C 298		С
ATOM		O GLU C 298		0
ATOM			39.059 90.158 96.551 1.00 21.45	N
			39.857 90.796 95.517 1.00 21.01	C
			40.911 91.725 96.130 1.00 20.70	С
			40.315 93.056 96.599 1.00 21.37	С
		OD1 ASP C 299	39.244 93.430 96.077 1.00 21.01	O
		OD2 ASP C 299	40.827 93.789 97.487 1.00 22.23	O
ATOM		C ASP C 299	40.497 89.803 94.561 1.00 20.83	C
ATOM	8939	O ASP C 299	40.613 90.085 93.372 1.00 21.04	0
ATOM	8940	N GLN C 300	40.904 88.648 95.055 1.00 20.50	N
<b>ATOM</b>	8942	CA GLN C 300	41.388 87.596 94.176 1.00 20.66	C
ATOM	8944	CB GLN C 300	41.731 86.315 94.970 1.00 20.16	С
ATOM	8947	CG GLN C 300	42.991 86.449 95.870 1.00 18.84	С
		CD GLN C 300	43.195 85.243 96.745 1.00 16.77	С
		OE1 GLN C 300	43.030 84.136 96.271 1.00 18.45	О
		NE2 GLN C 300	43.543 85.442 98.014 1.00 13.14	N
ATOM	8955	C GLN C 300	40.331 87.313 93.094 1.00 21.42	С
ATOM	8956	O GLN C 300	40.639 87.268 91.886 1.00 21.43	O
ATOM	8957	N ILE C 301	39.090 87.163 93.540 1.00 21.90	N
ATOM		CA ILE C 301	37.971 86.851 92.662 1.00 22.51	C
		CB ILE C 301	36.708 86.448 93.504 1.00 22.67	C
		CG1 ILE C 301	36.953 85.082 94.166 1.00 22.78	C
		CD1 ILE C 301	36.086 84.819 95.338 1.00 22.78	C
		CG2 ILE C 301	35.434 86.413 92.646 1.00 21.69	C
ATOM	8974	C ILE C 301	37.654 87.973 91.670 1.00 22.92	С
ATOM	8975	O ILE C 301	37.496 87.704 90.483 1.00 23.46	Ο

ATOM	8976 N ALA C 302	37.567 89.213 92.136 1.00 23.44	N
ATOM		37.297 90.358 91.248 1.00 23.74	С
ATOM	8980 CB ALA C 302	37.138 91.667 92.071 1.00 23.62	С
ATOM	8984 C ALA C 302	38.393 90.525 90.165 1.00 24.17	C
ATOM	8985 O ALA C 302		О
ATOM	8986 N LEUC 303	39.664 90.517 90.589 1.00 24.48	N
ATOM		40.801 90.572 89.664 1.00 24.40	C
ATOM	8990 CB LEU C 303	42.128 90.542 90.432 1.00 23.92	С
ATOM	8993 CG LEU C 303	42.414 91.805 91.252 1.00 24.25	С
ATOM	8995 CD1 LEU C 303	43.847 91.835 91.698 1.00 24.50	C
ATOM		42.082 93.091 90.497 1.00 24.83	C
ATOM	9003 C LEU C 303		С
<b>ATOM</b>	9004 O LEU C 303		O
		40.683 88.216 88.989 1.00 25.46	N
		40.559 87.137 88.007 1.00 26.09	С
ATOM	9009 CB LEU C 304	40.622 85.767 88.704 1.00 26.51	С
ATOM		42.003 85.320 89.130 1.00 27.18	С
ATOM		41.980 83.863 89.418 1.00 28.09	C
ATOM		43.012 85.629 88.029 1.00 29.72	C
ATOM		39.281 87.195 87.177 1.00 25.82	С
ATOM		39.242 86.775 86.013 1.00 25.58	0
	9024 N LYS C 305	38.218 87.696 87.761 1.00 25.64	N
		36.981 87.715 87.005 1.00 26.29	C
ATOM	9028 CB LYS C 305	35.813 88.203 87.881 1.00 26.84	C
ATOM	9031 CG LYS C 305	34.439 87.892 87.295 1.00 30.10	Č
ATOM		33.308 88.353 88.246 1.00 34.41	Č
ATOM	9037 CE LYS C 305		C
ATOM	9040 NZ LYS C 305		N
ATOM			C
	9045 O LYS C 305		Ö
		37.767 89.761 85.964 1.00 24.83	N
		37.904 90.763 84.933 1.00 24.69	C
ATOM		38.142 92.079 85.587 1.00 24.53	č
ATOM	9054 C ALA C 306		C
ATOM		38.947 90.612 82.759 1.00 24.53	Ö
	9056 N SER C 307	40.132 89.891 84.536 1.00 24.19	N
	9058 CA SER C 307	41.307 89.510 83.797 1.00 24.60	C
	9060 CB SER C 307	42.416 89.097 84.766 1.00 24.97	Č
	9063 OG SER C 307	43.144 90.243 85.182 1.00 29.53	Ö
	9065 C SER C 307	41.142 88.334 82.868 1.00 24.11	c
ATOM	9066 O SER C 307	41.913 88.210 81.904 1.00 24.50	ŏ
ATOM	9067 N THR C 308	40.216 87.428 83.179 1.00 22.90	N
ATOM		40.264 86.105 82.578 1.00 22.16	C
ATOM	9071 CB THR C 308	39.182 85.214 83.140 1.00 22.11	C
ATOM		39.520 84.866 84.471 1.00 22.43	Ö
ATOM	9075 CG2 THR C 308	39.183 83.857 82.474 1.00 22.57	C
	9079 C THR C 308	40.153 86.169 81.076 1.00 21.89	c
ATOM	9080 O THR C 308	40.914 85.513 80.355 1.00 21.92	Ö
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ATOM	9081	N ILE C 309	39.208 86.954 80.592 1.00 21.40	N
ATOM	9083	CA ILE C 309	39.023 87.048 79.154 1.00 21.25	С
ATOM	9085	CB ILE C 309	37.712 87.774 78.822 1.00 20.90	С
ATOM			37.416 87.631 77.344 1.00 20.93	С
ATOM			37.472 86.250 76.858 1.00 21.61	C
ATOM		CG2 ILE C 309		Č
ATOM		C ILE C 309	40.213 87.720 78.474 1.00 21.81	C
ATOM	9099			Õ
			40.818 88.682 79.166 1.00 21.86	N
ATOM		CA GLU C 310	41.905 89.450 78.600 1.00 20.98	C
ATOM		CB GLU C 310	42.221 90.682 79.447 1.00 20.83	Č
ATOM		CG GLU C 310		Č
ATOM		CD GLU C 310		C
		OE1 GLU C 310		o
ATOM		OE2 GLU C 310		o
ATOM			43.058 88.523 78.491 1.00 20.63	c
			43.712 88.509 77.469 1.00 21.17	0
ATOM			43.290 87.699 79.500 1.00 20.65	N
			44.471 86.830 79.474 1.00 20.84	C
			44.759 86.187 80.846 1.00 20.84	C
				C
ATOM			45.413 87.194 81.797 1.00 21.11	C
ATOM			45.275 86.773 83.279 1.00 21.03	
			45.691 84.973 80.742 1.00 22.06	C
		C ILE C 311	44.287 85.782 78.404 1.00 21.02	C
ATOM	9133		45.278 85.423 77.777 1.00 21.65	0
ATOM			43.045 85.319 78.164 1.00 20.81	N
ATOM			42.738 84.365 77.068 1.00 20.33	C
		CB MET C 312	41.282 83.934 77.084 1.00 20.38	C
ATOM		CG MET C 312		C
ATOM			39.130 82.820 78.407 1.00 23.29	S
ATOM			39.092 81.695 79.650 1.00 26.02	С
			43.004 84.975 75.707 1.00 20.48	С
			43.417 84.277 74.774 1.00 20.46	О
		N LEUC313	42.761 86.288 75.588 1.00 20.32	N
		CA LEU C 313	43.016 87.002 74.349 1.00 19.95	С
		CB LEU C 313	42.349 88.349 74.395 1.00 19.65	C
ATOM	9158	CG LEU C 313	40.838 88.317 74.231 1.00 20.60	С
ATOM	9160	CD1 LEU C 313	40.323 89.657 74.601 1.00 22.49	C
ATOM	9164	CD2 LEU C 313	40.421 88.043 72.809 1.00 22.11	C
ATOM	9168	C LEU C 313	44.517 87.114 74.062 1.00 20.48	С
ATOM	9169	O LEU C 313	44.970 86.986 72.910 1.00 19.41	Ο
ATOM	9170	N LEU C 314	45.285 87.350 75.119 1.00 21.36	N
		CA LEU C 314	46.742 87.304 75.031 1.00 22.27	C
		CB LEU C 314	47.378 87.756 76.341 1.00 22.10	С
		CG LEU C 314	48.051 89.097 76.593 1.00 22.13	С
		CD1 LEU C 314	47.813 90.060 75.558 1.00 23.29	C
		CD2 LEU C 314	47.573 89.669 77.902 1.00 23.63	C
		C LEU C 314	47.219 85.871 74.675 1.00 23.00	C

ATOM	9188 O LEUC 314	47.987 85.708 73.731 1.00 23.62	0
		46.781 84.842 75.403 1.00 23.38	N
		47.194 83.441 75.088 1.00 23.93	C
		46.679 82.410 76.120 1.00 24.28	Ċ
ATOM		47.382 82.504 77.476 1.00 27.22	C
ATOM	9199 CD GLU C 315		Č
ATOM		49.186 81.092 76.775 1.00 32.39	O
ATOM		49.728 82.806 77.994 1.00 31.87	Ō
ATOM	9202 C GLU C 315		C
_	9203 O GLU C 315		Ō
	9204 N THR C 316		N
	9206 CA THR C 316		С
ATOM		43.589 83.855 71.857 1.00 21.88	С
ATOM		42.615 83.046 72.539 1.00 20.43	O
ATOM		43.091 83.941 70.394 1.00 22.37	С
ATOM			С
	9217 O THR C 316		O
ATOM	9218 N ALA C 317	46.228 85.148 71.048 1.00 20.05	N
ATOM	9220 CA ALA C 317	47.092 85.868 70.168 1.00 20.00	С
ATOM		47.249 87.275 70.678 1.00 20.45	С
ATOM	9226 C ALA C 317		С
ATOM	9227 O ALA C 317		O
ATOM		49.031 84.887 71.230 1.00 21.12	N
ATOM	9230 CA ARG C 318	50.324 84.186 71.273 1.00 21.70	C
ATOM	9232 CB ARG C 318	50.663 83.913 72.735 1.00 22.23	С
ATOM	9235 CG ARG C 318	51.943 83.198 73.021 1.00 24.76	С
ATOM	9238 CD ARG C 318	51.980 82.735 74.441 1.00 29.47	C
ATOM	9241 NE ARG C 318	53.328 82.767 74.979 1.00 34.52	N
ATOM	9243 CZ ARG C 318	53.625 83.006 76.263 1.00 38.26	С
<b>ATOM</b>	9244 NH1 ARG C 318	52.668 83.248 77.171 1.00 39.13	N
ATOM	9247 NH2 ARG C 318	54.896 82.994 76.643 1.00 39.06	N
ATOM	9250 C ARG C 318	50.366 82.877 70.481 1.00 20.96	С
<b>ATOM</b>		51.422 82.466 70.056 1.00 20.67	О
ATOM		49.225 82.218 70.325 1.00 21.00	N
ATOM	9254 CA ARG C 319	49.137 80.935 69.613 1.00 21.52	С
ATOM	9256 CB ARG C 319	48.157 80.009 70.347 1.00 22.53	С
ATOM	9259 CG ARG C 319	48.761 79.186 71.485 1.00 25.78	С
ATOM	9262 CD ARG C 319	47.747 78.810 72.591 1.00 30.60	C
ATOM	9265 NE ARG C 319	48.453 78.230 73.736 1.00 34.90	N
ATOM	9267 CZ ARG C 319	49.208 78.920 74.610 1.00 36.03	C
ATOM	9268 NH1 ARG C 319	49.361 80.244 74.516 1.00 35.20	N
ATOM	9271 NH2 ARG C 319	49.813 78.268 75.594 1.00 36.20	N
ATOM		48.661 81.085 68.167 1.00 20.46	C
ATOM	9275 O ARG C 319	48.460 80.095 67.474 1.00 19.77	О
ATOM	9276 N TYR C 320	48.473 82.329 67.738 1.00 19.64	N
ATOM	9278 CA TYR C 320	48.007 82.639 66.402 1.00 19.22	C
ATOM	9280 CB TYR C 320	47.636 84.135 66.256 1.00 19.39	C
ATOM	9283 CG TYR C 320	47.295 84.550 64.831 1.00 18.42	C

ATOM	9284	CD1 TYR C 320	46.083 84.202 64.253 1.00 17.75	C
ATOM	9286	CE1 TYR C 320	45.786 84.575 62.960 1.00 17.76	Č
ATOM		CZ TYR C 320		C
ATOM	9289	OH TYR C 320		Ō
ATOM	9291	CE2 TYR C 320		Ċ
ATOM	9293	CD2 TYR C 320		Ċ
ATOM	9295	C TYR C 320	49.054 82.281 65.377 1.00 18.95	C
		O TYR C 320	50.175 82.733 65.450 1.00 18.89	0
ATOM	9297	N ASN C 321	48.659 81.474 64.407 1.00 18.89	N
ATOM		CA ASN C 321	49.521 81.088 63.325 1.00 18.85	C
ATOM	9301	CB ASN C 321	49.367 79.594 63.116 1.00 19.14	С
ATOM	9304	CG ASN C 321	50.275 79.065 62.041 1.00 19.83	C
ATOM		OD1 ASN C 321		О
ATOM		ND2 ASN C 321		N
ATOM	9309 (	C ASN C 321	49.134 81.863 62.063 1.00 18.64	С
		O ASN C 321	48.022 81.690 61.541 1.00 18.17	O
		N HIS C 322	50.039 82.715 61.567 1.00 18.15	N
ATOM	9313 (	CA HIS C 322	49.694 83.563 60.428 1.00 17.63	С
		CB HIS C 322		С
ATOM	9318 (	CG HIS C 322	49.822 85.919 59.480 1.00 18.50	С
ATOM	9319 N	ND1 HIS C 322	48.561 86.452 59.653 1.00 18.45	N
ATOM	9321 (	CE1 HIS C 322	48.288 87.275 58.656 1.00 17.20	С
ATOM	9323 N	VE2 HIS C 322	49.318 87.283 57.829 1.00 17.99	N
		CD2 HIS C 322	10.00	C
			49.871 82.858 59.102 1.00 16.73	С
ATOM			49.287 83.293 58.124 1.00 16.50	Ο
ATOM	9329 N	N GLU C 323	50.631 81.765 59.047 1.00 16.36	N
ATOM	9331 C	CA GLU C 323	50.675 80.947 57.814 1.00 15.96	C
ATOM	9333 C	CB GLU C 323	51.686 79.810 57.935 1.00 16.08	C
ATOM		CG GLU C 323	51.782 78.979 56.657 1.00 18.17	С
ATOM	9339 C	CD GLU C 323	52.870 77.917 56.678 1.00 19.03	C
ATOM	9340 C	DE1 GLU C 323	53.586 77.808 57.690 1.00 20.63	Ο
			52.994 77.177 55.683 1.00 18.53	Ο
		GLU C 323		C
ATOM		GLU C 323	48.955 80.296 56.247 1.00 13.86	О
			48.483 80.055 58.431 1.00 14.77	N
			47.185 79.393 58.285 1.00 14.57	С
		CB THR C 324	47.160 78.062 59.140 1.00 15.16	C
		G1 THR C 324	47.434 78.329 60.540 1.00 14.64	Ο
		G2 THR C 324	48.246 77.040 58.670 1.00 13.97	С
		THR C 324	46.002 80.275 58.706 1.00 14.25	С
		THR C 324	44.857 79.920 58.490 1.00 13.36	О
		GLU C 325	46.303 81.424 59.314 1.00 14.85	N
		A GLU C 325	45.313 82.384 59.849 1.00 14.59	С
		B GLU C 325	44.601 83.107 58.716 1.00 14.04	С
		G GLU C 325	45.546 84.001 57.941 1.00 12.44	C
		D GLU C 325	44.904 84.690 56.756 1.00 11.07	С
AIUM	9369 O	E1 GLU C 325	43.662 84.777 56.678 1.00 10.49	Ο

ATOM	9370 OE2 GLU C 325	45.663 85.167 55.899 1.00 9.70	Ο
<b>ATOM</b>	9371 C GLU C 325	44.348 81.710 60.820 1.00 15.35	C
ATOM	9372 O GLU C 325	43.140 81.847 60.734 1.00 15.10	Ο
ATOM	9373 N CYS C 326	44.942 80.990 61.760 1.00 16.63	N
ATOM	9375 CA CYS C 326	44.243 80.114 62.664 1.00 17.79	C
ATOM	9377 CB CYS C 326	44.515 78.680 62.252 1.00 17.93	С
ATOM	9380 SG CYS C 326	43.326 78.130 61.051 1.00 17.07	S
ATOM	9381 C CYS C 326	44.775 80.287 64.047 1.00 19.77	С
ATOM		45.980 80.432 64.235 1.00 19.66	Ο
ATOM		43.882 80.248 65.025 1.00 22.43	N
ATOM		44.283 80.131 66.423 1.00 24.44	С
		43.214 80.733 67.310 1.00 24.68	С
ATOM	9389 CG1 ILE C 327	43.197 82.250 67.068 1.00 24.44	С
		41.889 82.845 67.350 1.00 25.51	С
ATOM		43.473 80.370 68.786 1.00 25.12	С
ATOM	9400 C ILE C 327		C
ATOM	9401 O ILE C 327	43.727 77.792 66.522 1.00 25.84	O
ATOM	9402 N THR C 328	45.700 78.436 67.383 1.00 28.62	N
ATOM	9404 CA THR C 328	46.125 77.075 67.670 1.00 30.85	C
ATOM	9406 CB THR C 328	47.472 76.849 67.056 1.00 30.89	C
ATOM	9408 OG1 THR C 328	47.390 77.153 65.659 1.00 31.59	O
<b>ATOM</b>	9410 CG2 THR C 328	47.844 75.354 67.117 1.00 32.19	C
<b>ATOM</b>	9414 C THR C 328	46.170 76.770 69.161 1.00 32.50	С
ATOM	9415 O THR C 328	47.248 76.735 69.753 1.00 32.90	Ο
ATOM	9416 N PHE C 329	44.985 76.564 69.744 1.00 34.40	N
ATOM	9418 CA PHE C 329	44.814 76.137 71.136 1.00 35.56	C
ATOM	9420 CB PHE C 329	43.352 75.806 71.391 1.00 35.71	С
ATOM	9423 CG PHE C 329	42.971 75.773 72.846 1.00 37.29	C
<b>ATOM</b>	9424 CD1 PHE C 329		C
<b>ATOM</b>	9426 CE1 PHE C 329	42.181 76.942 74.852 1.00 36.69	C
<b>ATOM</b>	9428 CZ PHE C 329	42.198 75.713 75.564 1.00 38.22	С
<b>ATOM</b>	9430 CE2 PHE C 329	42.591 74.497 74.899 1.00 37.78	C
ATOM	9432 CD2 PHE C 329	42.963 74.542 73.552 1.00 37.96	C
ATOM	9434 C PHE C 329	45.677 74.915 71.484 1.00 36.59	C
ATOM	9435 O PHE C 329	46.287 74.893 72.570 1.00 37.17	О
ATOM	9436 N LEU C 330	45.742 73.920 70.582 1.00 37.22	N
	9438 CA LEU C 330	46.641 72.740 70.750 1.00 37.98	C
ATOM	9440 CB LEU C 330	45.912 71.602 71.491 1.00 38.39	С
<b>ATOM</b>	9443 CG LEU C 330	46.350 71.300 72.931 1.00 40.08	С
<b>ATOM</b>	9445 CD1 LEU C 330	46.032 69.817 73.265 1.00 41.39	C
<b>ATOM</b>	9449 CD2 LEU C 330	47.845 71.598 73.186 1.00 40.84	С
<b>ATOM</b>	9453 C LEU C 330	47.203 72.192 69.425 1.00 37.69	С
<b>ATOM</b>	9454 O LEU C 330	46.727 72.554 68.360 1.00 38.18	Ο
ATOM	9455 N LYS C 331	48.196 71.315 69.475 1.00 37.13	N
ATOM	9457 CA LYS C 331	48.858 70.907 68.239 1.00 37.33	C
ATOM	9459 CB LYS C 331	49.680 69.630 68.419 1.00 37.85	C
ATOM	9462 CG LYS C 331	50.896 69.819 69.341 1.00 40.26	С
ATOM	9465 CD LYS C 331	51.977 68.724 69.159 1.00 41.77	С

ATOM	9468 CE LYS C 331	53.197 69.011 70.047 1.00 42.34	С
ATOM	9471 NZ LYS C 331	54.455 68.791 69.293 1.00 43.43	N
ATOM	9475 C LYS C 331	47.855 70.704 67.115 1.00 36.47	С
ATOM	9476 O LYS C 331	47.883 71.427 66.110 1.00 37.10	О
<b>ATOM</b>	9477 N ASP C 332	46.949 69.745 67.299 1.00 35.03	N
ATOM	9479 CA ASP C 332	45.984 69.368 66.254 1.00 33.52	С
<b>ATOM</b>	9481 CB ASP C 332	45.735 67.856 66.326 1.00 33.42	С
<b>ATOM</b>	9484 CG ASP C 332	46.732 67.060 65.491 1.00 34.07	С
<b>ATOM</b>	9485 OD1 ASP C 332	47.472 67.662 64.683 1.00 34.43	О
<b>ATOM</b>	9486 OD2 ASP C 332	46.839 65.818 65.570 1.00 34.73	О
ATOM	9487 C ASP C 332	44.637 70.143 66.278 1.00 32.00	С
<b>ATOM</b>	9488 O ASP C 332	43.746 69.892 65.450 1.00 31.91	O
<b>ATOM</b>	9489 N PHE C 333	44.494 71.074 67.220 1.00 29.78	N
ATOM	9491 CA PHE C 333	43.245 71.783 67.422 1.00 28.34	С
ATOM	9493 CB PHE C 333	42.837 71.697 68.901 1.00 28.83	С
ATOM	9496 CG PHE C 333	42.336 70.323 69.334 1.00 30.95	C
ATOM	9497 CD1 PHE C 333	43.156 69.199 69.239 1.00 33.57	C
ATOM	9499 CE1 PHE C 333	42.697 67.944 69.626 1.00 34.89	C
ATOM	9501 CZ PHE C 333	41.402 67.795 70.120 1.00 34.94	C
ATOM	9503 CE2 PHE C 333	40.583 68.899 70.229 1.00 33.86	C
ATOM	9505 CD2 PHE C 333	41.049 70.160 69.847 1.00 32.43	С
ATOM	9507 C PHE C 333	43.442 73.230 66.975 1.00 26.25	C
ATOM	9508 O PHE C 333	43.950 74.058 67.737 1.00 26.49	0
ATOM	9509 N THR C 334	43.075 73.530 65.731 1.00 23.74	N
ATOM	9511 CA THR C 334	43.211 74.886 65.189 1.00 22.15	С
ATOM		44.198 74.916 64.022 1.00 22.27	C
ATOM		43.789 73.981 63.020 1.00 21.35	0
ATOM		45.565 74.443 64.465 1.00 22.71	C
ATOM	9521 C THR C 334	41.886 75.436 64.726 1.00 20.28	С
ATOM	9522 O THR C 334	41.008 74.690 64.383 1.00 19.63	Ο
ATOM		41.756 76.747 64.698 1.00 18.82	N
ATOM	9525 CA TYR C 335	40.469 77.370 64.438 1.00 18.55	С
ATOM		39.742 77.682 65.767 1.00 18.56	С
ATOM	9530 CG TYR C 335	39.672 76.472 66.671 1.00 17.82	C
ATOM		40.650 76.239 67.630 1.00 16.61	C
	9533 CE1 TYR C 335	40.623 75.103 68.408 1.00 17.81	С
	9535 CZ TYR C 335	39.599 74.180 68.254 1.00 18.25	С
	9536 OH TYR C 335	39.563 73.050 69.046 1.00 20.01	О
	9538 CE2 TYR C 335	38.617 74.395 67.315 1.00 17.94	С
	9540 CD2 TYR C 335	38.663 75.536 66.524 1.00 17.44	C
	9542 C TYR C 335	40.662 78.638 63.589 1.00 18.47	С
	9543 O TYR C 335	41.312 79.595 64.018 1.00 17.98	O
	9544 N SER C 336	40.128 78.605 62.367 1.00 18.11	N
	9546 CA SER C 336	40.004 79.782 61.510 1.00 17.60	С
	9548 CB SER C 336	39.716 79.335 60.101 1.00 17.17	Č
	9551 OG SER C 336	38.417 78.800 60.047 1.00 15.50	0
	9553 C SER C 336	38.858 80.707 61.946 1.00 17.92	C
	9554 O SER C 336	38.074 80.379 62.836 1.00 16.89	0

ATOM	9555	N LYS C 337	38.754 81.862 61.287 1.00 18.32	N
			37.671 82.797 61.567 1.00 18.74	C
		CB LYS C 337		C
ATOM	9562	CG LYS C 337	38.992 84.958 61.264 1.00 18.53	С
ATOM	9565	CD LYS C 337	38.728 86.436 61.031 1.00 19.47	С
ATOM		CE LYS C 337	38.523 86.799 59.561 1.00 19.94	С
ATOM		NZ LYS C 337	38.656 88.274 59.301 1.00 18.41	N
ATOM		C LYS C 337	36.357 82.134 61.216 1.00 19.74	С
ATOM	9576		35.384 82.253 61.955 1.00 20.66	O
		N ASP C 338	36.338 81.416 60.096 1.00 20.62 .	N
			35.166 80.655 59.694 1.00 21.06	С
		CB ASP C 338	35.441 79.845 58.417 1.00 21.54	С
		CG ASP C 338	35.236 80.662 57.153 1.00 22.69	С
ATOM	9585	OD1 ASP C 338	34.782 81.831 57.239 1.00 22.27	О
ATOM	9586	OD2 ASP C 338	35.506 80.207 56.024 1.00 25.63	О
ATOM	9587	C ASP C 338	34.737 79.721 60.793 1.00 20.84	C
ATOM	9588	O ASP C 338	33.544 79.586 61.030 1.00 21.08	Ο
ATOM	9589	N ASP C 339	35.707 79.097 61.461 1.00 20.65	N
ATOM	9591	CA ASP C 339	35.430 78.135 62.535 1.00 20.49	C
ATOM	9593	CB ASP C 339	36.723 77.485 63.041 1.00 19.99	C
<b>ATOM</b>		CG ASP C 339	37.270 76.474 62.079 1.00 18.52	С
ATOM	9597	OD1 ASP C 339	36.475 75.796 61.393 1.00 15.97	О
ATOM	9598	OD2 ASP C 339	38.486 76.284 61.943 1.00 18.05	О
ATOM	9599	C ASP C 339	34.693 78.768 63.692 1.00 20.76	C
ATOM	9600	O ASP C 339	33.751 78.203 64.230 1.00 20.00	О
ATOM	9601	N PHE C 340	35.125 79.962 64.054 1.00 21.96	N
ATOM	9603	CA PHE C 340	34.440 80.719 65.076 1.00 22.95	С
ATOM	9605	CB PHE C 340	35.176 82.005 65.421 1.00 23.07	С
ATOM	9608	CG PHE C 340	36.399 81.828 66.277 1.00 22.95	C
ATOM	9609	CD1 PHE C 340	37.463 81.066 65.866 1.00 22.51	C
ATOM	9611	CE1 PHE C 340	38.588 80.952 66.633 1.00 22.57	C
ATOM	9613	CZ PHE C 340	38.682 81.605 67.807 1.00 23.78	C
ATOM	9615	CE2 PHE C 340	37.643 82.391 68.233 1.00 25.28	С
ATOM		CD2 PHE C 340	36.512 82.509 67.463 1.00 24.52	C
ATOM	9619	C PHE C 340	33.045 81.064 64.569 1.00 23.67	С
ATOM		O PHE C 340	32.085 80.943 65.309 1.00 23.60	О
ATOM		N HIS C 341	32.926 81.492 63.317 1.00 24.91	N
ATOM		CA HIS C 341	31.612 81.819 62.786 1.00 26.47	С
ATOM	9625	CB HIS C 341	31.638 82.334 61.337 1.00 26.86	C
<b>ATOM</b>		CG HIS C 341	30.262 82.414 60.746 1.00 30.78	C
ATOM		ND1 HIS C 341	29.302 83.287 61.224 1.00 33.90	N
ATOM		CE1 HIS C 341	28.168 83.091 60.568 1.00 36.37	С
ATOM		NE2 HIS C 341	28.347 82.102 59.702 1.00 36.36	N
ATOM		CD2 HIS C 341	29.643 81.651 59.805 1.00 34.80	С
ATOM		C HIS C 341	30.619 80.641 62.894 1.00 26.47	C
ATOM	9638		29.454 80.848 63.254 1.00 26.40	0
ATOM	9639		31.084 79.429 62.605 1.00 26.78	N
ATOM	9641	CA ARG C 342	30.240 78.241 62.639 1.00 27.49	C

ATOM	9643	CB ARG C 342	30.930 77.068 61.967 1.00 27.93	С
		CG ARG C 342		С
		CD ARG C 342	32.392 76.757 59.973 1.00 33.11	С
ATOM		NE ARG C 342	32.473 76.765 58.516 1.00 35.74	N
ATOM		CZ ARG C 342	33.545 76.392 57.827 1.00 37.80	С
ATOM		NH1 ARG C 342	•	N
ATOM		NH2 ARG C 342	33.509 76.426 56.499 1.00 39.32	N
ATOM		C ARG C 342	29.887 77.821 64.043 1.00 27.39	С
ATOM		O ARG C 342	28,925 77.116 64.239 1.00 28.16	0
ATOM		N ALA C 343	30.688 78.225 65.013 1.00 27.43	N
ATOM		CA ALA C 343	30.359 78.051 66.416 1.00 27.24	C
ATOM		CB ALA C 343	31.608 78.221 67.263 1.00 27.10	C
ATOM		C ALA C 343	29.286 79.029 66.882 1.00 27.37	С
ATOM		O ALA C 343	28.997 79.068 68.078 1.00 27.62	O
		N GLY C 344		N
			27.653 80.784 66.234 1.00 27.23	C
_		C GLY C 344	28.108 82.172 66.731 1.00 26.99	C
		O GLY C 344	27.284 82.969 67.222 1.00 26.63	O
ATOM		N LEU C 345	29.401 82.470 66.611 1.00 26.29	N
ATOM		CA LEU C 345	29.920 83.761 67.043 1.00 26.05	С
ATOM		CB LEU C 345	31.392 83.660 67.508 1.00 26.01	С
ATOM		CG LEU C 345		С
ATOM			32.888 82.915 69.392 1.00 27.83	С
ATOM		CD2 LEU C 345	30.637 82.014 69.280 1.00 29.12	С
ATOM		C LEU C 345	29.740 84.821 65.945 1.00 25.74	С
ATOM		O LEU C 345	29.797 84.531 64.753 1.00 24.32	O
ATOM		N GLN C 346	29.483 86.043 66.412 1.00 26.61	N
ATOM		CA GLN C 346	29.309 87.257 65.615 1.00 27.29	С
ATOM		CB GLN C 346	28.979 88.441 66.520 1.00 27.75	С
ATOM		CG GLN C 346	27.667 88.453 67.274 1.00 30.06	С
ATOM		CD GLN C 346	27.621 89.629 68.287 1.00 32.70	С
	-		26.604 90.312 68.389 1.00 36.00	0
		<b>NE2 GLN C 346</b>	28,725 89.863 69.011 1.00 30.49	N
		C GLN C 346	30.599 87.679 64.955 1.00 27.40	C
ATOM	9715		31.678 87.520 65.522 1.00 28.47	O
		N VAL C 347	30.494 88.319 63.809 1.00 26.94	N
		CA VAL C 347	31.661 88.882 63.154 1.00 26.52	С
		CB VAL C 347	31.260 89.348 61.746 1.00 26.83	С
		CG1 VAL C 347	30.781 90.818 61.735 1.00 27.09	C
		CG2 VAL C 347	32.382 89.108 60.821 1.00 27.86	С
		C VAL C 347	32.316 90.021 63.968 1.00 25.70	С
		O VAL C 347	33.523 90.192 63.948 1.00 24.79	O
		N GLU C 348	31.500 90.766 64.707 1.00 25.23	N
		CA GLU C 348	31.941 91.910 65.508 1.00 25.25	C
		CB GLU C 348	30.718 92.610 66.148 1.00 26.27	С
		CG GLU C 348	29.820 93.435 65.231 1.00 29.33	С
		CD GLU C 348	28.795 92.623 64.439 1.00 34.78	С
		OE1 GLU C 348	28.748 91.364 64.556 1.00 35.05	0

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ATOM 9744 OE2 GLU C 348 28.022 93.274 63.665 1.00 39.97 0 ATOM 9745 C GLU C 348 32.873 91.503 66.655 1.00 23.99 C 33.499 92.355 67.279 1.00 23.59 ATOM 9746 O GLU C 348 0 ATOM 9747 N PHE C 349 32.880 90.212 66.989 1.00 22.63 33.822 89.626 67.948 1.00 21.44 C ATOM 9749 CA PHE C 349 C ATOM 9751 CB PHE C 349 33.093 88.619 68.816 1.00 21.89 ATOM 9754 CG PHE C 349 33.898 88.062 69.936 1.00 22.89 C ATOM 9755 CD1 PHE C 349 34.514 88.893 70.847 1.00 25.73 C 35.239 88.354 71.906 1.00 27.78 C ATOM 9757 CE1 PHE C 349 ATOM 9759 CZ PHE C 349 35.320 86.979 72.058 1.00 26.52 34.697 86.156 71.156 1.00 25.03 ATOM 9761 CE2 PHE C 349 C ATOM 9763 CD2 PHE C 349 33.995 86.692 70.105 1.00 23.88  $\mathbf{C}$ ATOM 9765 C PHE C 349 34.934 88.910 67.215 1.00 20.23 C ATOM 9766 O PHE C 349 36.089 89.139 67.494 1.00 19.56 0 ATOM 9767 N ILE C 350 34.587 88.073 66.244 1.00 18.88 ATOM 9769 CA ILE C 350 35.588 87.275 65.555 1.00 18.34  $\mathbf{C}$ 34.919 86.374 64.501 1.00 18.48 ATOM 9771 CB ILE C 350 C ATOM 9773 CG1 ILE C 350 34.053 85.320 65.180 1.00 19.15 C 32.929 84.839 64.286 1.00 20.67 ATOM 9776 CD1 ILE C 350  $\mathbf{C}$ ATOM 9780 CG2 ILE C 350 35.956 85.654 63.625 1.00 18.23  $\mathbf{C}$ ATOM 9784 C ILE C 350 36.697 88.127 64.918 1.00 18.02 C ATOM 9785 O ILE C 350 37.894 87.805 65.066 1.00 17.63 0 ATOM 9786 N ASN C 351 36.313 89.203 64.216 1.00 17.31 N ATOM 9788 CA ASN C 351 37.284 89.993 63.470 1.00 16.76 C ATOM 9790 CB ASN C 351 36.634 90.970 62.471 1.00 16.58 C 36.193 90.299 61.157 1.00 15.21 ATOM 9793 CG ASN C 351 C 36.680 89.250 60.774 1.00 16.64 ATOM 9794 OD1 ASN C 351 0 ATOM 9795 ND2 ASN C 351 35.265 90.923 60.478 1.00 12.76 N ATOM 9798 C ASN C 351 38.251 90.703 64.415 1.00 17.01 ATOM 9799 O ASN C 351 39.428 90.591 64.211 1.00 17.64 0 ATOM 9800 N PRO C 352 37.796 91.423 65.431 1.00 17.04 N ATOM 9801 CA PRO C 352 38.701 92.051 66.390 1.00 17.25 C ATOM 9803 CB PRO C 352 37.734 92.660 67.386 1.00 17.51 C ATOM 9806 CG PRO C 352 36.576 93.055 66.525 1.00 17.29 C 36.403 91.832 65.684 1.00 17.74 ATOM 9809 CD PRO C 352 C ATOM 9812 C PRO C 352 39.662 91.131 67.120 1.00 17.55 C 40.735 91.557 67.538 1.00 17.30 ATOM 9813 O PRO C 352 0 ATOM 9814 N ILE C 353 39.280 89.878 67.285 1.00 17.86 N ATOM 9816 CA ILE C 353 40.121 88.908 67.973 1.00 18.08 ATOM 9818 CB ILE C 353 39.344 87.642 68.260 1.00 18.73 C ATOM 9820 CG1 ILE C 353 38.612 87.745 69.557 1.00 19.43 C 37.650 86.617 69.621 1.00 22.63 ATOM 9823 CD1 ILE C 353  $\mathbf{C}$ ATOM 9827 CG2 ILE C 353 40.238 86.413 68.304 1.00 21.14 C ATOM 9831 C ILE C 353 41.223 88.565 67.044 1.00 17.44 ATOM 9832 O ILE C 353 42.370 88.413 67.466 1.00 17.27 O ATOM 9833 N PHE C 354 40.863 88.377 65.775 1.00 17.04 N ATOM 9835 CA PHE C 354 41.870 88.096 64.776 1.00 16.79 С ATOM 9837 CB PHE C 354 41.295 87.430 63.524 1.00 16.89 C

ATOM	9840	CG PHE C 354	41.106 85.940 63.679 1.00 16.68	С
ATOM	9841	CD1 PHE C 354	40.077 85.443 64.458 1.00 16.83	С
ATOM	9843	CE1 PHE C 354	39.918 84.087 64.633 1.00 16.11	С
ATOM		CZ PHE C 354	40.796 83.218 64.047 1.00 15.19	С
ATOM		CE2 PHE C 354	41.834 83.694 63.291 1.00 14.88	С
ATOM		CD2 PHE C 354	41.987 85.045 63.107 1.00 15.98	C
		C PHE C 354	42.707 89.330 64.487 1.00 16.83	C
ATOM		O PHE C 354	43.882 89.151 64.281 1.00 16.91	Ö
ATOM		N GLU C 355	42.181 90.564 64.572 1.00 17.05	N
ATOM		CA GLU C 355	43.042 91.758 64.341 1.00 18.14	C
ATOM		CB GLU C 355	42.309 93.115 64.163 1.00 18.96	Č
ATOM		CG GLU C 355	40.898 92.929 63.605 1.00 24.73	Č
ATOM			40.007 94.178 63.479 1.00 30.19	Č
			38.932 94.030 62.795 1.00 29.35	ŏ
			40.334 95.245 64.099 1.00 32.39	ŏ
		C GLU C 355	44.081 91.842 65.437 1.00 17.35	c
ATOM		O GLU C 355	45.256 91.877 65.147 1.00 17.04	Ö
ATOM		N PHE C 356	43.641 91.846 66.684 1.00 17.06	N
ATOM		CA PHE C 356	44.525 91.801 67.843 1.00 16.82	Ċ
ATOM		CB PHE C 356		Č
ATOM			44.468 91.485 70.374 1.00 16.78	Č
			44.878 92.672 70.945 1.00 16.87	C
		CE1 PHE C 356	45.563 92.700 72.131 1.00 17.87	C
		CZ PHE C 356	45.829 91.535 72.793 1.00 17.65	c
		CE2 PHE C 356	45.414 90.332 72.251 1.00 18.63	Č
		CD2 PHE C 356	44.719 90.308 71.043 1.00 17.21	Č
ATOM		C PHE C 356	45.573 90.722 67.714 1.00 17.34	С
ATOM	9887		46.736 90.927 68.092 1.00 17.16	ŏ
ATOM		N SER C 357	45.174 89.556 67.203 1.00 17.18	N
ATOM			46.108 88.439 67.136 1.00 17.38	C
		CB SER C 357	45.381 87.133 66.813 1.00 17.76	Č
		OG SER C 357	44.418 86.873 67.825 1.00 18.50	Ö
ATOM		C SER C 357	47.236 88.737 66.152 1.00 16.38	C
ATOM		O SER C 357	48.396 88.587 66.474 1.00 15.52	O
ATOM	9899		46.857 89.200 64.978 1.00 16.04	N
		CA ARG C 358	47.785 89.681 63.961 1.00 16.53	
		<b>CB ARG C 358</b>	46.990 90.176 62.736 1.00 16.22	C C
		CG ARG C 358	46.325 89.101 61.928 1.00 14.87	С
		CD ARG C 358	45.937 89.541 60.556 1.00 13.61	C
		NE ARG C 358	44.956 90.614 60.583 1.00 12.04	N
		CZ ARG C 358	43.667 90.450 60.802 1.00 11.62	С
ATOM	9915	NH1 ARG C 358	43.133 89.263 61.004 1.00 11.73	N
		NH2 ARG C 358	42.890 91.500 60.809 1.00 13.12	N
ATOM	9921		48.709 90.832 64.418 1.00 16.96	C
ATOM	9922		49.835 90.921 63.974 1.00 16.47	Ο
ATOM	9923		48.188 91.723 65.256 1.00 17.76	N
ATOM		CA ALA C 359	48.885 92.902 65.732 1.00 18.41	С
ATOM	9927	CB ALA C 359	47.897 93.908 66.291 1.00 18.54	C

ATOM	9931 C ALA C 359	49.861 92.495 66.803 1.00 19.75	C
ATOM	9932 O ALA C 359	51.016 92.878 66.741 1.00 20.24	О
<b>ATOM</b>	9933 N MET C 360	49.414 91.722 67.796 1.00 20.82	N
<b>ATOM</b>	9935 CA MET C 360	50.349 91.113 68.733 1.00 21.74	C
ATOM	9937 CB MET C 360	49.652 90.151 69.684 1.00 21.72	C
ATOM	9940 CG MET C 360	48.761 90.800 70.719 1.00 22.69	C
ATOM	9943 SD MET C 360	49.549 91.976 71.785 1.00 21.63	S
ATOM	9944 CE MET C 360	50.525 90.934 72.758 1.00 23.43	С
ATOM	9948 C MET C 360	51.503 90.375 68.024 1.00 22.40	C
ATOM	9949 O MET C 360	52.625 90.480 68.456 1.00 22.90	O
ATOM	9950 N ARG C 361	51.250 89.631 66.958 1.00 23.53	N
<b>ATOM</b>	9952 CA ARG C 361	52.334 88.893 66.281 1.00 24.93	C
<b>ATOM</b>	9954 CB ARG C 361	51.782 88.118 65.070 1.00 25.30	C
ATOM	9957 CG ARG C 361	52.811 87.720 64.015 1.00 27.27	C
ATOM	9960 CD ARG C 361	52.259 87.610 62.597 1.00 30.11	C
ATOM	9963 NE ARG C 361	53.023 86.632 61.823 1.00 32.45	N
ATOM	9965 CZ ARG C 361		С
ATOM	9966 NH1 ARG C 361	53.171 87.887 59.847 1.00 35.66	N
ATOM	9969 NH2 ARG C 361	54.118 85.778 59.985 1.00 35.46	N
ATOM	9972 C ARG C 361	53.459 89.842 65.846 1.00 25.31	C
ATOM	9973 O ARG C 361	54.644 89.539 65.988 1.00 24.75	О
ATOM	9974 N ARG C 362	53.021 90.985 65.315 1.00 26.30	N
ATOM	9976 CA ARG C 362	53.817 92.131 64.879 1.00 26.81	C
ATOM	9978 CB ARG C 362	52.835 93.250 64.461 1.00 27.31	C
ATOM	9981 CG ARG C 362	53.313 94.320 63.491 1.00 29.92	С
ATOM	9984 CD ARG C 362	52.162 95.097 62.825 1.00 31.82	C
ATOM	9987 NE ARG C 362	51.356 94.189 62.005 1.00 32.00	N
ATOM	9989 CZ ARG C 362	50.031 94.021 62.092 1.00 33.06	С
ATOM	9990 NH1 ARG C 362	49.277 94.722 62.947 1.00 31.56	N
ATOM	9993 NH2 ARG C 362	49.446 93.131 61.293 1.00 34.15	N
ATOM	9996 C ARG C 362	54.720 92.635 65.999 1.00 26.45	C
ATOM	9997 O ARG C 362	55.840 93.010 65.775 1.00 26.56	Ο
<b>ATOM</b>	9998 N LEU C 363	54.221 92.679 67.212 1.00 26.40	N
ATOM	10000 CA LEU C 363	55.085 93.001 68.330 1.00 26.69	C
ATOM	10002 CB LEU C 363	54.244 93.218 69.584 1.00 26.96	С
ATOM	10005 CG LEU C 363	53.737 94.633 69.743 1.00 28.33	C
ATOM	10007 CD1 LEU C 363	52.958 94.712 71.029 1.00 28.19	C
ATOM	10011 CD2 LEU C 363	54.916 95.635 69.719 1.00 29.47	С
ATOM	10015 C LEU C 363	56.171 91.946 68.615 1.00 26.28	С
ATOM	10016 O LEU C 363	57.261 92.298 69.013 1.00 25.96	Ο
	10017 N GLY C 364	55.855 90.663 68.465 1.00 26.11	N
	10019 CA GLY C 364	56.816 89.605 68.701 1.00 26.12	С
	10022 C GLY C 364	57.326 89.551 70.130 1.00 26.28	С
	10023 O GLY C 364	58.530 89.636 70.369 1.00 26.55	O
	10024 N LEU C 365	56.419 89.412 71.090 1.00 26.35	N
	10026 CA LEU C 365	56.828 89.262 72.474 1.00 26.62	C
	10028 CB LEU C 365	55.649 89.451 73.420 1.00 26.84	C
	10031 CG LEU C 365	54.705 90.642 73.256 1.00 28.48	C

ATOM	10033	CD1 LEU C 365	53.735 90.730 74.471 1.00 29.09	С
		CD2 LEU C 365	55,479 91.922 73.108 1.00 29.85	С
		C LEU C 365	57.441 87.880 72.699 1.00 26.50	C
		O LEU C 365	56.984 86.880 72.121 1.00 27.02	O
		N ASP C 366	58.484 87.833 73.522 1.00 25.82	N
		CA ASP C 366	59.014 86.572 74.008 1.00 25.54	C
		CB ASP C 366	60.530 86.662 74.223 1.00 25.31	Č
		CG ASP C 366		Č
			60.092 88.049 76.140 1.00 27.00	Ö
		OD2 ASP C 366	62.074 88.213 75.336 1.00 23.90	ŏ
		C ASP C 366	58.266 86.177 75.305 1.00 25.67	c
		O ASP C 366	57.461 86.968 75.843 1.00 25.93	Ö
			58.536 84.955 75.781 1.00 25.06	N
			57.934 84.386 77.001 1.00 24.68	C
			58.724 83.136 77.423 1.00 25.13	č
			58.631 81.996 76.418 1.00 26.28	Č
			57.765 82.047 75.514 1.00 25.81	O
			59.406 81.004 76.474 1.00 28.52	ŏ
		C ASP C 367		C
		O ASP C 367	56.903 85.306 79.024 1.00 22.49	ŏ
		N ALA C 368	58.984 86.075 78.387 1.00 23.55	N
			59.213 86.954 79.536 1.00 22.91	Ċ
			60.619 87.492 79.502 1.00 23.06	č
		C ALA C 368	58.231 88.094 79.517 1.00 22.31	c
		O ALA C 368	57.646 88.446 80.546 1.00 22.06	Ö
		N GLU C 369	58.051 88.643 78.316 1.00 21.69	· N
		CA GLU C 369	57.169 89.791 78.096 1.00 20.97	C
		CB GLU C 369	57.463 90.435 76.731 1.00 20.89	Č
		CG GLU C 369	58.738 91.284 76.722 1.00 18.99	Č
			59.372 91.484 75.342 1.00 17.52	č
			60.058 92.511 75.180 1.00 16.47	o
			59.221 90.641 74.421 1.00 16.36	Ö
		C GLU C 369		c
		O GLU C 369		Ö
ATOM			55.320 88.232 77.760 1.00 19.94	N
		CA TYR C 370	53.942 87.832 77.870 1.00 20.41	C
		CB TYR C 370	53.689 86.539 77.102 1.00 20.54	C
		CG TYR C 370	53.051 86.728 75.727 1.00 22.11	C
		CD1 TYR C 370	53.750 86.401 74.574 1.00 23.49	C
		CE1 TYR C 370	53.197 86.553 73.337 1.00 23.37	Č
		CZ TYR C 370	51.936 87.044 73.198 1.00 23.38	C
		OH TYR C 370	51.445 87.167 71.918 1.00 25.78	Ö
		CE2 TYR C 370	51.198 87.377 74.308 1.00 23.16	C
		CD2 TYR C 370	51.758 87.211 75.578 1.00 22.69	C
		C TYR C 370	53.567 87.675 79.349 1.00 20.55	c
		O TYR C 370	52.550 88.157 79.804 1.00 20.68	0
		N ALA C 371	54,424 87.028 80.115 1.00 21.01	N
		CA ALA C 371	54.104 86.692 81.498 1.00 20.71	C
AT OIM	TOTIO	CA ALA C3/1	J4.104 00.074 01.470 1.00 40./1	

ATOM 10117	CB ALA C 371	55.123 85.737 82.021 1.00 21.09	C
ATOM 10121	C ALA C 371	54.044 87.915 82.379 1.00 20.62	С
ATOM 10122	O ALA C 371	53.217 88.003 83.295 1.00 19.75	0
	N LEU C 372		N
		54.943 90.156 82.734 1.00 21.23	С
	CB LEU C 372	56.238 90.934 82.400 1.00 21.20	Ċ
		57.489 90.444 83.168 1.00 21.11	Č
		58.749 91.065 82.616 1.00 20.65	C
		57.347 90.751 84.655 1.00 20.82	Č
	C LEU C 372		c
		53.125 91.653 83.290 1.00 21.12	0
		53.262 90.965 81.144 1.00 21.20	N
		52.045 91.684 80.741 1.00 21.46	C
ATOM 10146	CB LEU C 373	51.852 91.625 79.227 1.00 22.26	C
		51.785 92.881 78.364 1.00 23.82	C
		51.079 92.498 77.110 1.00 26.07	C
		51.069 94.022 79.018 1.00 25.10	С
		50.810 91.068 81.405 1.00 20.82	С
		49.889 91.782 81.801 1.00 20.56	О
		50.804 89.741 81.538 1.00 20.35	N
		49.712 89.038 82.215 1.00 19.83	C
ATOM 10165	CB ILE C 374	49.837 87.504 82.026 1.00 19.67	C
ATOM 10167		49.609 87.124 80.570 1.00 18.25	С
ATOM 10170	CD1 ILE C 374	50.070 85.805 80.239 1.00 17.91	C
ATOM 10174		48.820 86.773 82.904 1.00 20.58	C
ATOM 10178	C ILE C 374	49.641 89.416 83.704 1.00 19.80	C
		48.561 89.638 84.248 1.00 19.27	O
		50.800 89.498 84.342 1.00 20.09	N
		50.885 89.850 85.749 1.00 20.49	С
		52.297 89.660 86.256 1.00 20.40	C
		50.462 91.287 85.940 1.00 21.01	C
		49.738 91.621 86.880 1.00 21.55	ŏ
		50.914 92.155 85.054 1.00 21.25	N
		50.487 93.540 85.147 1.00 21.75	C
	CB ILE C 376	51.120 94.397 84.049 1.00 22.02	č
	CG1 ILE C 376	52.633 94.584 84.325 1.00 22.83	C
	CD1 ILE C 376	53.499 95.020 83.102 1.00 22.97	C
		50.356 95.720 83.927 1.00 21.74	C
	CG2 ILE C 376		
	C ILE C 376	48.977 93.573 85.021 1.00 22.03	C
ATOM 10208		48.306 94.274 85.780 1.00 22.24	0
	N ASN C 377	48.462 92.805 84.053 1.00 22.18	N
	CA ASN C 377	47.049 92.807 83.717 1.00 22.16	C
	CB ASN C 377	46.792 91.894 82.512 1.00 22.34	C
	CG ASN C 377	45.340 91.928 82.053 1.00 23.24	C
	OD1 ASN C 377		O
	ND2 ASN C 377		N
	C ASN C 377	46.193 92.391 84.924 1.00 21.96	С
ATOM 10222	O ASN C 377	45.222 93.060 85.282 1.00 21.34	Ο

			46.581 91.282 85.551 1.00 22.24	N
			45.945 90.795 86.806 1.00 21.86	C
			46.760 89.582 87.339 1.00 21.27	C
			46.488 88.360 86.454 1.00 20.50	C
<b>ATOM</b>	10232	CD1 ILE C 378	47.527 87.185 86.593 1.00 21.01	С
<b>ATOM</b>	10236	CG2 ILE C 378	46.412 89.292 88.780 1.00 21.94	C
ATOM	10240	C ILE C 378	45.770 91.897 87.897 1.00 21.49	C
ATOM	10241	O ILE C 378	44.687 92.096 88.433 1.00 19.66	0
ATOM	10242	N PHE C 379	46.860 92.611 88.162 1.00 22.23	N
			46.946 93.623 89.217 1.00 22.96	С
			48.369 93.663 89.813 1.00 22.66	С
			48.767 92.406 90.526 1.00 22.91	С
			49.961 91.762 90.210 1.00 22.67	C
			50.334 90.610 90.874 1.00 21.01	Č
			49.506 90.083 91.868 1.00 21.68	Č
			48.324 90.701 92.207 1.00 21.90	C
			47.953 91.864 91.533 1.00 24.00	Č
			46.527 95.021 88.751 1.00 23.26	c
			47.210 95.997 88.972 1.00 22.51	Ö
			45.364 95.107 88.137 1.00 24.39	N
			44.842 96.390 87.709 1.00 25.22	C
			44.295 96.277 86.279 1.00 25.20	C
			45.187 95.547 85.453 1.00 23.22	Ö
				c
		C SER C 380		0
		O SER C 380		N
			44.185 97.873 89.497 1.00 27.23	
ATOM	10275	CA ALA C 381	43.428 98.348 90.671 1.00 28.01	C
			44.244 99.402 91.448 1.00 27.35	С
			42.017 98.888 90.350 1.00 28.78	C
			41.168 98.986 91.254 1.00 29.19	0
			41.776 99.215 89.077 1.00 29.16	N
ATOM	10285	CA ASP C 382	40.508 99.807 88.639 1.00 29.25	C
			40.801 100.771 87.516 1.00 29.43	С
ATOM	10290	CG ASP C 382		С
ATOM	10291	OD1 ASP C 382	41.958 98.995 86.392 1.00 30.62	0
ATOM	10292	OD2 ASP C 382	41.037 100.543 85.138 1.00 35.14	О
ATOM	10293	C ASP C 382	39.430 98.812 88.170 1.00 28.95	C
ATOM	10294	O ASP C 382	38.468 99.183 87.501 1.00 28.93	О
ATOM	10295	N ARG C 383	39.564 97.544 88.525 1.00 28.77	N
ATOM	10297	CA ARG C 383	38.525 96.593 88.169 1.00 28.43	C
ATOM	10299	CB ARG C 383	39.021 95.163 88.360 1.00 28.28	С
ATOM	10302	CG ARG C 383	40.236 94.829 87.593 1.00 26.97	C
		CD ARG C 383	40.026 94.899 86.117 1.00 26.28	C
		NE ARG C 383	41.162 94.299 85.408 1.00 24.87	N
		CZ ARG C 383	41.202 94.092 84.110 1.00 21.15	C
		NH1 ARG C 383		N
		NH2 ARG C 383		N
_		C ARG C 383	37.252 96.827 89.010 1.00 28.42	C

<b>ATOM</b>	10318	O ARG C 383	37.314 97.405 90.078 1.00 27.50	Ο
ATOM	10319	N PRO C 384	36.110 96.366 88.514 1.00 28.96	N
			34.869 96.341 89.284 1.00 29.32	С
			33.891 95.616 88.352 1.00 29.56	C
		CG PRO C 384		С
			35.923 95.836 87.151 1.00 29.25	Ċ
		C PRO C 384	34.970 95.550 90.589 1.00 29.67	C
			35.455 94.404 90.550 1.00 30.34	Ö
			34.516 96.172 91.693 1.00 29.15	N
			34.335 95.560 93.008 1.00 28.59	C
		CB ASN C 385		Ċ
		CG ASN C 385		Č
		OD1 ASN C 385	31.364 95.552 92.631 1.00 30.01	Ö
			31.839 94.004 91.098 1.00 28.47	N
			35.616 95.178 93.716 1.00 28.24	c
			35.589 94.337 94.610 1.00 28.84	Ö
			36.733 95.785 93.331 1.00 27.80	N
			37.980 95.611 94.069 1.00 27.70	C
			39.226 96.083 93.300 1.00 27.91	C
			40.443 95.981 94.190 1.00 28.89	C
			39.447 95.278 92.003 1.00 28.00	C
		C VAL C 386		c
			37.396 97.584 95.304 1.00 27.40	Ö
			38.330 95.875 96.431 1.00 27.89	N
			38.069 96.393 97.763 1.00 27.47	C
		CB GLN C 387		C
		CG GLN C 387		C
		CD GLN C 387		C
		OE1 GLN C 387	34.297 95.612 98.873 1.00 34.44	Ö
		NE2 GLN C 387	34.891 93.599 99.695 1.00 32.89	N
			39.330 96.927 98.396 1.00 27.04	C
			39.263 97.511 99.459 1.00 27.19	o
			40.480 96.737 97.751 1.00 26.75	N
			41.737 97.323 98.223 1.00 26.26	C
		CB GLU C 388	42.506 96.319 99.077 1.00 26.27	C
		CG GLU C 388	41.810 95.953 100.373 1.00 25.93	
		CD GLU C 388	42.769 95.473 101.452 1.00 26.32	C C
		OE1 GLU C 388	43.187 94.301 101.395 1.00 23.97	
			43.187 94.301 101.393 1.00 23.97	0
		OE2 GLU C 388	43.087 90.272 102.373 1.00 29.03	0
		C GLU C 388	43.712 97.281 96.851 1.00 25.49	C
ATOM			42.083 98.755 96.271 1.00 25.44	O
		N PRO C 389	42.768 99.211 95.049 1.00 24.67	N
		CA PRO C 389 CB PRO C 389		C
			41.909 100.380 94.546 1.00 24.61	C C
		CG PRO C 389	40.898 100.661 95.599 1.00 24.99	C
		CD PRO C 389	40.829 99.497 96.521 1.00 25.33	
		C PRO C 389	44.194 99.649 95.335 1.00 24.23	C
ATUM	10408	O PRO C 389	45.083 99.271 94.569 1.00 23.99	O

ATOM 1040	9 N GLY C 390	44.404 100.414 96.412 1.00 23.99	N
	1 CA GLY C 390	45.739 100.826 96.831 1.00 23.80	C
	4 C GLY C 390	46.722 99.671 96.832 1.00 24.09	C
	5 O GLY C 390	47.796 99.753 96.246 1.00 23.75	0
	6 N ARG C 391	46.337 98.576 97.478 1.00 24.84	N
	8 CA ARG C 391	47.178 97.384 97.546 1.00 25.72	C
	0 CB ARG C 391	46.579 96.341 98.490 1.00 26.51	C
	23 CG ARG C 391	46.949 96.591 99.959 1.00 30.17	Č
	6 CD ARG C 391	47.538 95.369 100.659 1.00 34.52	Č
	9 NE ARG C 391	46.495 94.388 100.953 1.00 36.68	N
	1 CZ ARG C 391	46.659 93.070 100.918 1.00 39.33	Ĉ
	2 NH1 ARG C 391	47.843 92.531 100.612 1.00 40.62	N
	5 NH2 ARG C 391	45.626 92.278 101.197 1.00 40.10	N
	8 C ARG C 391	47.426 96.753 96.193 1.00 25.25	C
	9 O ARG C 391	48.568 96.446 95.869 1.00 25.05	Ö
	0 N VAL C 392	46.365 96.555 95.411 1.00 24.85	N
	2 CA VAL C 392	46.504 96.044 94.045 1.00 24.75	C
	4 CB VAL C 392	45.171 96.105 93.285 1.00 24.27	C
	6 CG1 VAL C 392	45.376 95.817 91.806 1.00 23.35	C
	0 CG2 VAL C 392	44.176 95.114 93.893 1.00 24.67	C
	64 C VAL C 392	47.594 96.800 93.260 1.00 25.28	c
	5 O VAL C 392	48.486 96.195 92.641 1.00 25.15	ŏ
	6 N GLU C 393	47.527 98.126 93.315 1.00 25.77	N
	8 CA GLU C 393	48.458 98.997 92.592 1.00 26.33	C
	60 CB GLU C 393	48.068 100.462 92.839 1.00 26.81	C
	3 CG GLU C 393	47.907 101.265 91.580 1.00 29.12	Č
	6 CD GLU C 393	48.204 102.719 91.801 1.00 32.89	Č
	7 OE1 GLU C 393	47.824 103.217 92.887 1.00 36.07	o
	8 OE2 GLU C 393	48.817 103.341 90.893 1.00 34.16	ŏ
	69 C GLU C 393	49.938 98.785 92.989 1.00 25.88	c
	0 O GLU C 393		ŏ
		50.182 98.589 94.288 1.00 25.36	N
		51.535 98.356 94.792 1.00 25.26	C
	5 CB ALA C 394	51.568 98.419 96.330 1.00 24.81	Č
	9 C ALA C 394	52.046 97.003 94.272 1.00 25.40	c
	0 O ALA C 394	53.207 96.873 93.849 1.00 25.34	Ö
	1 N LEU C 395	51.152 96.011 94.270 1.00 25.29	N
	3 CA LEU C 395	51.459 94.696 93.742 1.00 25.18	C
	5 CB LEU C 395	50.328 93.728 94.052 1.00 25.30	C
	8 CG LEU C 395	50.153 93.445 95.542 1.00 25.72	C
	0 CD1 LEU C 395	48.907 92.617 95.773 1.00 26.08	C
	4 CD2 LEU C 395	51.375 92.737 96.087 1.00 26.34	C
	8 C LEU C 395	51.724 94.739 92.241 1.00 25.03	c
	9 O LEU C 395	52.545 93.964 91.744 1.00 25.02	o
	0 N GLN C 396	51.076 95.663 91.525 1.00 24.61	N
	2 CA GLN C 396	51.314 95.794 90.085 1.00 24.35	C
	4 CB GLN C 396	50.236 96.645 89.422 1.00 24.33	C
	7 CG GLN C 396	50.191 96.544 87.892 1.00 22.66	C
WIOM INDO	1 CO OFIA C 330	JU.171 JU.JTT 07.074 1.00 44.00	$\sim$

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ATOM	10510	CD GLN C 396	49.352 97.620 87.265 1.00 22.51	C
<b>ATOM</b>	10511	OE1 GLN C 396	49.496 98.821 87.584 1.00 22.04	О
<b>ATOM</b>	10512	NE2 GLN C 396	48.466 97.212 86.371 1.00 23.29	N
<b>ATOM</b>	10515	C GLN C 396	52.666 96.407 89.785 1.00 24.63	С
<b>ATOM</b>	10516	O GLN C 396	53.285 96.084 88.759 1.00 24.94	Ο
		N GLN C 397	53.106 97.279 90.694 1.00 24.56	N
		CA GLN C 397	54.235 98.155 90.467 1.00 24.62	C
ATOM	10521	CB GLN C 397	54.475 99.059 91.687 1.00 25.20	С
ATOM	10524	CG GLN C 397	55.523 100.154 91.457 1.00 27.11	C
			55.510 101.237 92.539 1.00 29.65	C
ATOM	10528	OE1 GLN C 397	56.566 101.650 93.029 1.00 31.23	О
ATOM	10529	NE2 GLN C 397	54.320 101.702 92.902 1.00 31.11	N
		C GLN C 397	55.510 97.425 90.056 1.00 23.90	C
		O GLN C 397	56.024 97.754 89.006 1.00 24.00	О
		N PRO C 398	56.018 96.449 90.834 1.00 23.14	N
ATOM	10535	CA PRO C 398	57.264 95.743 90.454 1.00 22.24	C
		CB PRO C 398	57.496 94.736 91.589 1.00 22.05	C
			56.510 95.014 92.630 1.00 22.59	C
		02 110 0370	55.483 95.960 92.118 1.00 22.92	C
ATOM	10546	C PRO C 398	57.210 95.022 89.098 1.00 21.53	C
		O PRO C 398	58.276 94.799 88.495 1.00 20.78	О
		N TYR C 399	56.006 94.678 88.628 1.00 20.65	N
		CA TYR C 399	55.868 94.012 87.342 1.00 20.43	C
		CB TYR C 399	54.560 93.228 87.297 1.00 20.06	C
		CG TYR C 399	54.530 92.131 88.366 1.00 20.44	C
			53.732 92.251 89.492 1.00 21.47	C
			53.706 91.269 90.477 1.00 20.71	C
		CZ TYR C 399	54.513 90.151 90.374 1.00 20.44	C
		OH TYR C 399	54.516 89.169 91.407 1.00 18.00	О
		CE2 TYR C 399	55.335 90.035 89.264 1.00 18.95	С
		CD2 TYR C 399	55.344 91.013 88.281 1.00 18.85	C
		C TYR C 399	56.039 95.010 86.195 1.00 20.63	C
			56.743 94.746 85.211 1.00 20.36	О
		N VALC 400		N
		CA VAL C 400	55.680 97.285 85.412 1.00 21.27	C
		CB VAL C 400		C
			55.298 99.756 84.923 1.00 20.25	C
		CG2 VAL C 400	53.373 98.316 85.790 1.00 21.27	C
		C VALC 400	57.169 97.604 85.364 1.00 21.58	C
		O VAL C 400	57.742 97.744 84.283 1.00 21.31	О
		N GLU C 401	57.764 97.696 86.558 1.00 22.02	N
		CA GLU C 401	59.194 97.969 86.765 1.00 22.50	C
		CB GLU C 401	59.504 98.070 88.271 1.00 22.71	C
		CG GLU C 401	59.083 99.423 88.854 1.00 24.80	C
		CD GLU C 401	59.322 99.617 90.351 1.00 26.00	C
		OE1 GLU C 401	59.704 100.749 90.728 1.00 27.04	О
		OE2 GLU C 401	59.095 98.680 91.149 1.00 27.07	О
ATOM	10598	C GLU C 401	60.099 96.931 86.128 1.00 22.24	С

ATOM	10599	O GLU C 401	61.151 97.252 85.569 1.00 22.01	0
ATOM	10600	N ALA C 402	59.674 95.679 86.225 1.00 22.23	N
ATOM	10602	CA ALA C 402	60.413 94.587 85.632 1.00 21.76	С
ATOM	10604	CB ALA C 402	59.864 93.279 86.097 1.00 21.70	С
ATOM	10608	C ALA C 402	60.314 94.714 84.128 1.00 21.41	C
<b>ATOM</b>	10609	O ALA C 402	61.321 94.663 83.449 1.00 21.22	Ο
ATOM	10610	N LEU C 403	59.102 94.919 83.625 1.00 21.25	N
		CA LEU C 403	58.863 94.974 82.192 1.00 21.39	С
ATOM	10614	CB LEU C 403	57.370 95.078 81.942 1.00 21.10	С
ATOM	10617	CG LEU C 403	56.973 95.033 80.473 1.00 21.04	C
ATOM	10619		57.618 93.868 79.759 1.00 21.23	С
			55.471 94.964 80.370 1.00 21.60	C
		C LEU C 403		C
ATOM	10628	O LEU C 403	60.208 96.012 80.451 1.00 21.24	0
ATOM	10629	N LEU C 404	59.507 97.323 82.118 1.00 22.53	N
			60.217 98.482 81.642 1.00 23.54	C
ATOM	10633	CB LEU C 404	60.033 99.618 82.642 1.00 23.92	C
ATOM	10636	CG LEU C 404	60.917 100.858 82.554 1.00 25.19	C
			60.904 101.443 81.154 1.00 27.52	C
ATOM	10642	CD2 LEU C 404	60.411 101.860 83.553 1.00 25.81	C
ATOM	10646	C LEU C 404	61.686 98.129 81.484 1.00 24.32	C
ATOM	10647	O LEU C 404	62.266 98.304 80.401 1.00 24.50	О
		N SER C 405	62.264 97.610 82.573 1.00 25.23	N
			63.683 97.217 82.647 1.00 25.80	C
		CB SER C 405	63.989 96.620 84.037 1.00 26.32	C
		OG SER C 405	63.851 97.551 85.112 1.00 27.50	О
ATOM	10657	C SER C 405	64.093 96.188 81.569 1.00 25.70	C
		O SER C 405		О
			63.262 95.170 81.399 1.00 25.90	N
ATOM	10661	CA TYR C 406	63.587 94.041 80.545 1.00 26.24	C
		CB TYR C 406	62.589 92.906 80.769 1.00 25.52	C
		CG TYR C 406	62.786 91.683 79.898 1.00 24.35	C
ATOM	10667	CD1 TYR C 406	63.429 90.548 80.382 1.00 24.04	С
			63.586 89.422 79.584 1.00 22.32	С
ATOM	10671	CZ TYR C 406	63.093 89.428 78.315 1.00 20.54	С
		OH TYR C 406	63.237 88.326 77.543 1.00 21.00	О
		CE2 TYR C 406	62.449 90.516 77.819 1.00 20.39	С
ATOM	10676	CD2 TYR C 406	62.296 91.638 78.605 1.00 21.70	C
		C TYR C 406	63.621 94.467 79.082 1.00 27.56	С
ATOM	10679	O TYR C 406	64.556 94.101 78.365 1.00 27.64	О
		N THR C 407	62.614 95.239 78.656 1.00 29.01	N
ATOM	10682	CA THR C 407	62.495 95.714 77.266 1.00 30.12	C
ATOM	10684	CB THR C 407	61.170 96.471 77.044 1.00 29.66	С
		OG1 THR C 407	60.979 97.458 78.066 1.00 27.76	0
		CG2 THR C 407	59.974 95.548 77.183 1.00 29.40	C
ATOM			63.650 96.643 76.900 1.00 32.37	С
ATOM			64.193 96.578 75.785 1.00 32.25	0
ATOM	10694	N ARG C 408	64.029 97.489 77.859 1.00 34.93	N

ATOM	10696	CA ARG C 408	65.144 98.405 77.680 1.00 37.43	С
		CB ARG C 408	65.228 99.405 78.845 1.00 37.99	C
		CG ARG C 408	64.875 100.860 78.411 1.00 40.93	C
		CD ARG C 408	65.857 101.952 78.909 1.00 44.75	С
		NE ARG C 408	65.166 103.150 79.413 1.00 48.25	N
•		CZ ARG C 408		C
-		NH1 ARG C 408		N
		NH2 ARG C 408		N
		C ARG C 408	66.472 97.656 77.487 1.00 38.95	С
		O ARG C 408	67.464 98.246 77.036 1.00 38.99	Ö
		N ILE C 409		N
			67.505 95.391 77.447 1.00 41.64	C
			67.941 94.592 78.681 1.00 41.57	Ċ
			68.996 95.419 79.458 1.00 41.47	C
			68.633 95.819 80.891 1.00 40.71	Č
		CG2 ILE C 409		Č
		C ILE C 409	67.124 94.508 76.203 1.00 42.62	C
		O ILE C 409	67.655 94.771 75.127 1.00 42.69	O
		N LYS C 410		N
			65.826 92.736 75.101 1.00 44.44	C
			64.316 92.360 75.087 1.00 44.79	C
		CG LYS C 410		Ċ
		CD LYS C 410	62.604 91.015 73.645 1.00 44.67	Ċ
		CE LYS C 410		C
		NZ LYS C 410	61.779 89.348 71.938 1.00 44.64	N
		C LYS C 410	66.179 93.500 73.814 1.00 44.90	C
		O LYS C 410		O
			65.407 94.547 73.494 1.00 45.25	N
			65.760 95.467 72.394 1.00 45.54	С
		CB ARG C 411	64.745 95.430 71.223 1.00 45.91	С
		CG ARG C 411	64.244 94.020 70.836 1.00 47.88	С
ATOM	10769	CD ARG C 411	63.762 93.849 69.363 1.00 50.08	C
		NE ARG C 411	62.572 92.977 69.270 1.00 51.85	N
ATOM	10774	CZ ARG C 411	61.801 92.834 68.182 1.00 52.30	С
		NH1 ARG C 411	62.081 93.503 67.058 1.00 51.46	N
ATOM	10778	NH2 ARG C 411	60.740 92.014 68.221 1.00 51.88	N
ATOM	10781	C ARG C 411	65.895 96.879 72.989 1.00 44.58	С
ATOM	10782	O ARG C 411	64.907 97.516 73.337 1.00 44.52	O
ATOM	10783	N PRO C 412	67.118 97.353 73.146 1.00 43.52	N
ATOM	10784	CA PRO C 412	67.335 98.711 73.656 1.00 42.85	C
ATOM	10786	CB PRO C 412	68.805 98.683 74.111 1.00 43.05	С
ATOM	10789	CG PRO C 412	69.259 97.234 73.954 1.00 43.40	С
ATOM	10792	CD PRO C 412	68.390 96.661 72.874 1.00 43.60	С
ATOM	10795	C PRO C 412	67.115 99.809 72.599 1.00 41.83	С
ATOM			66.999 100.982 72.974 1.00 41.57	Ο
ATOM	10797	N GLN C 413	67.063 99.434 71.317 1.00 40.57	N
ATOM	10799	CA GLN C 413	66.860 100.396 70.224 1.00 39.64	C
ATOM	10801	CB GLN C 413	67.788 100.061 69.050 1.00 39.85	C

ATOM	10804 CG GLN C 413	69.160 100.752 69.130 1.00 40.39	С
ATOM	10807 CD GLN C 413	70.065 100.359 67.981 1.00 41.42	С
	10808 OE1 GLN C 413	70.388 101.181 67.112 1.00 41.02	0
	10809 NE2 GLN C 413	70.463 99.089 67.961 1.00 42.51	N
	10812 C GLN C 413	65.394 100.517 69.745 1.00 38.41	С
		65.066 101.360 68.918 1.00 38.15	0
	10814 N ASP C 414		N
	10816 CA ASP C 414		C
	10818 CB ASP C 414		Č
	10821 CG ASP C 414		č
-	10822 OD1 ASP C 414	60.686 99.568 68.493 1.00 36.52	O
			Ö
	10824 C ASP C 414		c
	10825 O ASP C 414		Õ
		62.872 101.776 71.522 1.00 34.39	N
		62.339 102.570 72.629 1.00 33.63	C
ATOM	10020 CA GEN C 415	62.682 104.044 72.436 1.00 33.86	c
	10833 CG GLN C 415	62.339 104.583 71.048 1.00 35.40	C
	10836 CD GLN C 415		C
		62.561 106.742 72.048 1.00 39.96	O
			N
	10838 NE2 GLN C 415	61.875 106.672 69.860 1.00 36.76	
	10841 C GLN C 415	60.832 102.451 72.799 1.00 32.52	С
	10842 O GLN C 415	60.351 102.422 73.927 1.00 32.48	0
	10843 N LEU C 416		N
	10845 CA LEU C 416		C
		58.084 102.868 70.329 1.00 30.36	C
		58.189 104.381 70.082 1.00 30.01	C
		57.722 104.728 68.657 1.00 29.67	C
		57.417 105.197 71.141 1.00 28.54	С
	10860 C LEU C 416		C
ATOM	10861 O LEUC 416	56.763 100.887 71.787 1.00 29.86	О
		58.745 100.120 72.530 1.00 29.46	N
ATOM	10864 CA ARG C 417	58.312 98.747 72.691 1.00 28.84	С
		59.532 97.849 72.832 1.00 29.00	C
ATOM	10869 CG ARG C 417	59.152 96.410 72.839 1.00 30.27	C
	10872 CD ARG C 417	60.296 95.455 72.695 1.00 30.86	С
	10875 NE ARG C 417	59.780 94.091 72.736 1.00 30.70	N
ATOM	10877 CZ ARG C 417	59.188 93.482 71.728 1.00 29.97	С
ATOM	10878 NH1 ARG C 417	59.039 94.098 70.562 1.00 30.02	N
ATOM	10881 NH2 ARG C 417	58.759 92.243 71.884 1.00 29.81	N
ATOM	10884 C ARG C 417	57.446 98.640 73.935 1.00 27.85	C
ATOM	10885 O ARG C 417	56.313 98.169 73.891 1.00 27.41	Ο
<b>ATOM</b>	10886 N PHE C 418	58.001 99.090 75.050 1.00 26.77	N
ATOM	10888 CA PHE C 418	57.244 99.151 76.292 1.00 26.02	C
ATOM	10890 CB PHE C 418	58.124 99.790 77.366 1.00 26.07	C
ATOM	10893 CG PHE C 418	57.465 99.951 78.695 1.00 26.71	С
ATOM	10894 CD1 PHE C 418	56.972 98.859 79.379 1.00 28.37	С
ATOM	10896 CE1 PHE C 418	56.381 99.019 80.637 1.00 28.78	C

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ATOM	10898	CZ PHE C 418	56.311 100.272 81.214 1.00 28.66	C
			56.797 101.363 80.532 1.00 28.52	C
			57.376 101.200 79.288 1.00 28.05	С
		C PHEC418	55.865 99.856 76.101 1.00 24.94	C
ATOM	10905	O PHE C 418		O
ATOM	10906	N PRO C 419	55.829 101.136 75.726 1.00 23.51	N
			54.547 101.788 75.485 1.00 22.93	C
		CB PRO C 419	54.936 103.158 74.911 1.00 22.79	С
ATOM	10912	CG PRO C 419	56.367 103.140 74.728 1.00 22.59	C
			56.955 102.053 75.499 1.00 23.02	С
			53.657 101.003 74.512 1.00 22.59	C
			52.470 100.964 74.739 1.00 21.78	О
			54.204 100.364 73.489 1.00 22.69	N
ATOM	10922	CA ARG C 420	53.374 99.531 72.612 1.00 23.38	C
ATOM	10924	CB ARG C 420	54.168 98.976 71.439 1.00 23.63	C
		CG ARG C 420	54.203 99.911 70.269 1.00 26.56	C
ATOM	10930	CD ARG C 420	55.015 99.395 69.093 1.00 30.48	C
ATOM	10933	NE ARG C 420	55.047 100.353 67.994 1.00 31.76	N
		CZ ARG C 420		С
ATOM	10936	NH1 ARG C 420	57.327 100.526 68.022 1.00 37.26	N
		NH2 ARG C 420		N
ATOM	10942	C ARG C 420	52.690 98.382 73.340 1.00 23.13	C
ATOM	10943	O ARG C 420	51.501 98.192 73.181 1.00 23.66	O
ATOM	10944	N MET C 421	53.427 97.613 74.123 1.00 22.82	N
ATOM	10946	CA MET C 421	52.833 96.546 74.923 1.00 23.10	C
ATOM	10948	CB MET C 421	53.911 95.828 75.737 1.00 23.53	C
ATOM	10951	CG MET C 421	54.814 94.952 74.908 1.00 24.77	C
ATOM	10954	SD MET C 421	56.279 94.651 75.816 1.00 25.81	S
			55.712 93.498 76.830 1.00 30.07	C
		C MET C 421	51.756 97.005 75.914 1.00 22.88	C
ATOM	10960	O MET C 421	50.753 96.313 76.104 1.00 22.80	Ο
ATOM	10961	N LEU C 422	51.977 98.132 76.583 1.00 22.36	N
ATOM	10963	CA LEU C 422	51.009 98.616 77.541 1.00 22.39	С
ATOM	10965	CB LEU C 422	51.574 99.783 78.335 1.00 23.02	C
ATOM	10968	CG LEU C 422	52.762 99.540 79.273 1.00 23.86	С
		CD1 LEU C 422	53.371 100.881 79.647 1.00 24.96	C
ATOM	10974	CD2 LEU C 422	52.356 98.814 80.491 1.00 23.97	C
ATOM	10978	C LEU C 422	49.721 99.053 76.849 1.00 22.31	С
ATOM	10979	O LEU C 422	48.625 98.900 77.408 1.00 22.34	Ο
ATOM	10980	N MET C 423	49.850 99.605 75.641 1.00 21.88	N
ATOM	10982	CA MET C 423	48.697 100.067 74.869 1.00 21.52	C
ATOM	10984	CB MET C 423	49.110 100.766 73.558 1.00 22.01	С
ATOM	10987	CG MET C 423	49.774 102.117 73.701 1.00 24.76	С
ATOM	10990	SD MET C 423	48.657 103.496 74.017 1.00 31.13	S
ATOM	10991	CE MET C 423	48.560 103.343 75.702 1.00 33.55	C
ATOM	10995	C MET C 423	47.827 98.884 74.539 1.00 20.24	C
ATOM	10996	O MET C 423	46.648 99.035 74.349 1.00 19.37	О
ATOM	10997	N LYS C 424	48.413 97.705 74.440 1.00 19.65	N

ATOM	10999	CA LYS C 424	47.597 96.507 74.262 1.00 20.04	С
		CB LYS C 424	48.463 95.272 73.967 1.00 20.40	С
		CG LYS C 424	49.280 95.397 72.697 1.00 20.67	С
			48.381 95.612 71.561 1.00 23.11	С
			49.066 95.450 70.262 1.00 25.92	C
			48.621 96.506 69.295 1.00 27.86	N
		C LYS C 424	46.643 96.245 75.439 1.00 19.40	C
		O LYS C 424	45.559 95.758 75.216 1.00 19.42	Ö
		N LEU C 425	47.035 96.569 76.664 1.00 18.89	Ň
		CA LEU C 425	46.104 96.544 77.786 1.00 19.22	Ĉ
			46.748 97.006 79.113 1.00 19.39	č
			48.042 96.310 79.577 1.00 20.01	C
			48.628 96.958 80.790 1.00 20.39	C
			47.800 94.848 79.833 1.00 20.80	C
				C
			44.901 97.422 77.495 1.00 19.35	
			43.777 97.057 77.841 1.00 20.43	0
			45.114 98.581 76.877 1.00 18.93	N
			43.998 99.449 76.508 1.00 18.25	C
			44.463 100.753 75.869 1.00 17.72	C
			43.305 101.664 75.634 1.00 17.87	C
			45.431 101.441 76.728 1.00 17.62	C
			43.060 98.702 75.544 1.00 18.59	С
			41.866 98.691 75.740 1.00 18.88	O
		N SER C 427	43.589 98.055 74.522 1.00 18.98	N
			42.762 97.244 73.626 1.00 19.96	C
			43.615 96.702 72.494 1.00 20.17	C
ATOM	11061	OG SER C 427	44.168 97.785 71.753 1.00 23.61	О
<b>ATOM</b>	11063	C SER C 427	42.054 96.068 74.305 1.00 20.13	C
<b>ATOM</b>	11064	O SER C 427	40.925 95.759 73.969 1.00 20.62	Ο
<b>ATOM</b>	11065	N LEU C 428	42.718 95.405 75.249 1.00 20.31	N
<b>ATOM</b>	11067	CA LEU C 428	42.133 94.265 75.939 1.00 20.50	С
ATOM	11069	CB LEU C 428	43.143 93.575 76.818 1.00 20.04	С
ATOM	11072	CG LEU C 428	44.127 92.748 75.990 1.00 20.36	С
ATOM	11074	CD1 LEU C 428	45.361 92.391 76.836 1.00 20.66	С
		CD2 LEU C 428	43.481 91.488 75.392 1.00 19.60	C
		C LEU C 428	40.932 94.658 76.778 1.00 21.54	С
ATOM			40.072 93.821 77.048 1.00 22.14	Ö
		N ARG C 429	40.836 95.929 77.155 1.00 22.26	N
		CA ARG C 429	39.649 96.408 77.855 1.00 22.80	C
		CB ARG C 429	39.888 97.775 78.466 1.00 22.76	Č
		CG ARG C 429	40.774 97.734 79.595 1.00 22.71	č
		CD ARG C 429	40.192 97.040 80.807 1.00 22.42	č
		NE ARG C 429	41.209 97.025 81.856 1.00 21.48	N
		CZ ARG C 429	41.181 97.742 82.964 1.00 18.67	C
		NH1 ARG C 429	40.154 98.517 83.256 1.00 18.19	N
		NH1 ARG C 429 NH2 ARG C 429	42.184 97.631 83.811 1.00 19.10	N
		C ARG C 429	38.472 96.516 76.929 1.00 23.20	C
		O ARG C 429	37.347 96.174 77.309 1.00 24.13	0
ATOM	1110/	O ANG C 429	37.347 70.174 77.307 1.00 24.13	U

ATOM 1	11108	N THR C 430	38.708 97.050 75.741 1.00 23.13	N
ATOM 1	11110	CA THR C 430	37.625 97.177 74.792 1.00 23.58	С
ATOM 1	11112	CB THR C 430	38.035 98.089 73.602 1.00 24.17	С
ATOM 1	11114	OG1 THR C 430	38.077 99.451 74.041 1.00 24.20	O
ATOM 1	11116	CG2 THR C 430	36.957 98.078 72.485 1.00 24.77	C
ATOM 1	11120	C THR C 430	37.213 95.773 74.332 1.00 23.10	C
		O THR C 430	36.038 95.475 74.228 1.00 22.85	0
		N LEU C 431		N
			37.847 93.547 73.642 1.00 22.67	С
			39.108 92.776 73.221 1.00 22.51	С
		CG LEU C 431		C
		CD1 LEU C 431	41.229 92.866 71.902 1.00 20.87	C
		CD2 LEU C 431	39.119 92.608 70.753 1.00 22.33	C
		C LEU C 431	37.040 92.784 74.710 1.00 22.32	C
		O LEU C 431		Ö
		N SER C 432	37.320 93.048 75.977 1.00 22.37	N
			36.553 92.468 77.084 1.00 22.86	C
			37.152 92.941 78.409 1.00 22.68	č
			36.399 92.501 79.500 1.00 24.39	Ö
		C SER C 432	35.060 92.824 76.994 1.00 22.96	c
		O SER C 432	34.193 91.959 77.149 1.00 22.80	Ö
		N SER C 433		N
			33.417 94.548 76.439 1.00 23.57	C
			33.391 96.032 76.104 1.00 23.61	C
		OG SER C 433		o
		C SER C 433	32.809 93.845 75.263 1.00 23.69	c
			31.679 93.410 75.333 1.00 24.17	Ö
				N
			33,543 93.770 74.158 1.00 23.72	C
ATOM	11165	CA VAL C 434	33.012 93.189 72.947 1.00 23.55	
		CB VAL C 434		C C
			33.522 92.577 70.549 1.00 24.73	C
			34.210 94.724 71.434 1.00 23.97	_
			32.630 91.752 73.247 1.00 23.22	C
			31.640 91.258 72.725 1.00 23.33	0
		N HIS C 435	33.381 91.105 74.134 1.00 23.17	N
		CA HIS'C 435	33.095 89.722 74.541 1.00 23.00	C
		CB HIS C 435	34.271 89.100 75.309 1.00 22.54	C
		CG HIS C 435	33.997 87.712 75.770 1.00 21.09	C
		ND1 HIS C 435	33.873 87.382 77.097 1.00 20.17	N
		CE1 HIS C 435	33.587 86.100 77.207 1.00 20.60	С
		NE2 HIS C 435	33.481 85.596 75.995 1.00 21.20	N
		CD2 HIS C 435	33.732 86.585 75.078 1.00 21.14	C
* .		C HIS C 435	31.795 89.622 75.358 1.00 23.30	C
		O HIS C 435	30.950 88.751 75.106 1.00 23.08	О
		N SER C 436	31.624 90.523 76.313 1.00 23.61	N
-		CA SER C 436	30.348 90.644 77.026 1.00 24.19	C
		CB SER C 436	30.412 91.801 78.033 1.00 23.96	С
ATOM 1	11204	OG SER C 436	31.376 91.512 79.061 1.00 25.95	О

ATOM 1	1206	C SER C 436	29.137 90.794 76.086 1.00 24.55	С
ATOM 1	1207	O SER C 436	28.107 90.189 76.304 1.00 24.85	Ο
ATOM 1	1208	N GLU C 437	29.270 91.566 75.018 1.00 25.17	N
ATOM 1	1210	CA GLU C 437	28.182 91.721 74.060 1.00 25.38	C
ATOM 1	1212	CB GLU C 437	28.445 92.896 73.113 1.00 26.09	C
ATOM 1	1215	CG GLU C 437	28.585 94.242 73.846 1.00 29.84	C
ATOM 1	1218	CD GLU C 437	29.059 95.406 72.951 1.00 35.02	С
ATOM 1	1219	OE1 GLU C 437	28.537 96.536 73.136 1.00 38.26	О
ATOM 1	1220	OE2 GLU C 437	29.945 95.214 72.065 1.00 37.73	0
ATOM 1	1221	C GLU C 437	27.946 90.439 73.280 1.00 24.04	C
ATOM 1	1222	O GLU C 437	26.836 90.146 72.933 1.00 24.34	0
ATOM 1	1223	N GLN C 438	28.991 89.682 73.011 1.00 23.03	N
ATOM 1	1225	CA GLN C 438	28.870 88.392 72.345 1.00 22.31	C
ATOM 1	1227	CB GLN C 438	30.260 87.855 72.023 1.00 22.24	C
ATOM 1	1230	CG GLN C 438	30.306 86.428 71.474 1.00 21.39	С
ATOM 1	1233	CD GLN C 438	29.680 86.321 70.112 1.00 21.22	C
ATOM 1	1234	OE1 GLN C 438	30.380 86.346 69.096 1.00 21.68	0
ATOM 1	1235	NE2 GLN C 438	28.363 86.200 70.077 1.00 20.20	N
ATOM 1	1238	C GLN C 438	28.170 87.374 73.209 1.00 22.57	С
ATOM 1	1239	O GLN C 438		0
		N VAL C 439		N
ATOM 1	1242	CA VAL C 439	27.872 86.477 75.476 1.00 23.42	C
ATOM 1	1244	CB VALC 439		C
ATOM 1	1246	CG1 VAL C 439	27.799 85.909 77.962 1.00 22.05	C
ATOM 1	1250	CG2 VAL C 439	29.994 86.150 76.831 1.00 22.25	C
ATOM 1	1254	C VAL C 439	26.369 86.703 75.560 1.00 24.45	C
ATOM 1	1255	O VAL C 439	25.580 85.759 75.508 1.00 24.80	О
ATOM 1	1256	N PHE C 440	25.996 87.972 75.683 1.00 25.55	N
ATOM 1	1258	CA PHE C 440	24.601 88.411 75.700 1.00 26.37	C
		CB PHE C 440	24.529 89.929 75.994 1.00 26.69	C
ATOM 1	1263		23.247 90.599 75.550 1.00 29.64	С
			22.212 90.846 76.475 1.00 31.80	C
			21.032 91.452 76.082 1.00 31.89	С
		CZ PHE C 440		C
		CE2 PHE C 440	21.869 91.605 73.808 1.00 32.53	C
		CD2 PHE C 440	23.072 91.000 74.217 1.00 31.85	С
ATOM 1	1274	C PHE C 440	23.925 88.041 74.378 1.00 26.30	C
		O PHE C 440	22.802 87.550 74.383 1.00 26.75	0
		N ALA C 441	24.602 88.260 73.256 1.00 26.40	N
ATOM 1	1278	CA ALA C 441	24.084 87.849 71.937 1.00 26.57	С
ATOM 1	1280	CB ALA C 441	25.089 88.169 70.814 1.00 26.19	C
ATOM 1	1284	C ALA C 441	23.737 86.366 71.910 1.00 26.95	С
ATOM 1			22.739 85.974 71.341 1.00 27.04	О
		N LEU C 442	24.563 85.553 72.548 1.00 27.68	N
		CA LEU C 442	24.405 84.115 72.513 1.00 28.09	C
		CB LEU C 442	25.705 83.446 72.953 1.00 28.18	С
		CG LEU C 442	26.805 83.488 71.897 1.00 27.85	C
ATOM 1	1295	CD1 LEU C 442	28.176 83.211 72.498 1.00 26.93	С

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ATOM 11299 CD2 LEU C 442 26.486 82.474 70.801 1.00 29.66  $\mathbf{C}$ ATOM 11303 C LEU C 442 23.246 83.654 73.383 1.00 28.80 C ATOM 11304 O LEU C 442 22.641 82.644 73.101 1.00 28.43 0 ATOM 11305 N ARG C 443 22.943 84.404 74.436 1.00 30.18 N ATOM 11307 CA ARG C 443 21.785 84.137 75.303 1.00 31.15 C ATOM 11309 CB ARG C 443 21.807 85.082 76.515 1.00 31.37 C ATOM 11312 CG ARG C 443 23.031 84.919 77.410 1.00 33.62 C ATOM 11315 CD ARG C 443 22.787 85.087 78.902 1.00 36.68 C ATOM 11318 NE ARG C 443 21.711 84.218 79.389 1.00 38.98 N ATOM 11320 CZ ARG C 443 21.560 83.799 80.649 1.00 40.80 C 22.414 84.141 81.614 1.00 41.65 ATOM 11321 NH1 ARG C 443 N ATOM 11324 NH2 ARG C 443 20.527 83.023 80.944 1.00 41.03 N ATOM 11327 C ARG C 443 20.461 84.303 74.550 1.00 31.48 C 19.476 83.632 74.832 1.00 31.71 ATOM 11328 O ARG C 443 0 ATOM 11329 N LEU C 444 20.440 85.216 73.593 1.00 32.22 N ATOM 11331 CA LEU C 444 19.275 85.391 72.735 1.00 32.49 C ATOM 11333 CB LEU C 444 19.263 86.791 72.088 1.00 32.71  $\mathbf{C}$ 19.608 88.050 72.915 1.00 33.52 C ATOM 11336 CG LEU C 444 19.703 89.258 71.979 1.00 33.88 ATOM 11338 CD1 LEU C 444 C ATOM 11342 CD2 LEU C 444 18.645 88.336 74.081 1.00 33.13  $\mathbf{C}$ ATOM 11346 C LEU C 444 19.174 84.304 71.650 1.00 32.21 C 18.157 84.220 71.011 1.00 32.73 O ATOM 11347 O LEU C 444 ATOM 11348 N GLN C 445 20.207 83.495 71.422 1.00 32.00 N 20.088 82.295 70.574 1.00 32.03  $\mathbf{C}$ ATOM 11350 CA GLN C 445 ATOM 11352 CB GLN C 445 21.333 82.109 69.714 1.00 32.11 C 21.583 83.152 68.654 1.00 32.95 C ATOM 11355 CG GLN C 445 23.080 83.312 68.378 1.00 35.56 C ATOM 11358 CD GLN C 445 ATOM 11359 OE1 GLN C 445 23.633 84.409 68.550 1.00 37.57 O ATOM 11360 NE2 GLN C 445 23.747 82.212 67.993 1.00 35.16 N 19.881 81.006 71.400 1.00 32.02 ATOM 11363 C GLN C 445 C ATOM 11364 O GLN C 445 20.138 79.892 70.920 1.00 31.71 0 ATOM 11365 N ASP C 446 19.411 81.174 72.637 1.00 32.13 N 19.342 80.111 73.653 1.00 32.17 C ATOM 11367 CA ASP C 446 18.143 79.189 73.380 1.00 32.55  $\mathbf{C}$ ATOM 11369 CB ASP C 446 16.862 79.694 74.031 1.00 34.14 C ATOM 11372 CG ASP C 446 16.670 80.933 74.083 1.00 35.83 ATOM 11373 OD1 ASP C 446 0 15.992 78.929 74.510 1.00 35.63 ATOM 11374 OD2 ASP C 446 0 ATOM 11375 C ASP C 446 20.627 79.286 73.866 1.00 31.43 C 20.552 78.140 74.286 1.00 32.15 ATOM 11376 O ASP C 446 0 ATOM 11377 N LYS C 447 21.793 79.869 73.592 1.00 30.34 N 23.091 79.250 73.891 1.00 29.31 ATOM 11379 CA LYS C 447 C 24.023 79.305 72.675 1.00 29.61 ATOM 11381 CB LYS C 447 C ATOM 11384 CG LYS C 447 23.320 78.828 71.384 1.00 32.16 C ATOM 11387 CD LYS C 447 24.207 77.982 70.451 1.00 34.89 C 24.630 78.733 69.176 1.00 35.99 C ATOM 11390 CE LYS C 447 26.113 78.642 68.909 1.00 36.81 ATOM 11393 NZ LYS C 447 N ATOM 11397 C LYS C 447 23.687 79.970 75.089 1.00 27.49 C 24.207 81.067 74.960 1.00 26.86 ATOM 11398 O LYS C 447 0

ATOM	11399	N LYS C 448	23.566 79.337 76.260 1.00 25.77	N
		CA LYS C 448	23.990 79.901 77.547 1.00 24.04	C
_		CB LYS C 448	22.863 79.739 78.584 1.00 24.27	Č
		CG LYS C 448	21.498 80.363 78.155 1.00 25.53	Č
		CD LYS C 448	20.343 80.087 79.162 1.00 26.43	č
				C
		CE LYS C 448	18.949 79.916 78.473 1.00 26.81	
		NZ LYS C 448	17.814 79.670 79.440 1.00 25.41	N
		C LYS C 448	25.278 79.239 78.044 1.00 21.92	C
-		O LYS C 448	25.595 78.115 77.704 1.00 21.75	O
		N LEU C 449	26.031 79.947 78.857 1.00 19.78	N
ATOM	11423	CA LEU C 449	27.305 79.422 79.319 1.00 18.23	C
ATOM	11425	CB LEU C 449	28.199 80.556 79.849 1.00 18.32	C
ATOM	11428	CG LEU C 449	28.668 81.644 78.858 1.00 18.67	С
<b>ATOM</b>	11430	CD1 LEU C 449	29.337 82.783 79.629 1.00 20.33	C
ATOM	11434	CD2 LEU C 449	29.635 81.123 77.812 1.00 18.73	С
ATOM	11438	C LEU C 449	27.085 78.365 80.390 1.00 16.30	C
ATOM	11439	O LEU C 449	26.057 78.370 81.055 1.00 16.20	O
		N PRO C 450	28.045 77.461 80.551 1.00 14.39	N
		CA PRO C 450	28.007 76.492 81.634 1.00 13.54	C
		CB PRO C 450	28.971 75.405 81.153 1.00 13.19	Č
		CG PRO C 450	29.946 76.115 80.341 1.00 13.88	Č
		CD PRO C 450	29.242 77.273 79.717 1.00 14.55	Č
_		C PRO C 450	28.494 77.134 82.922 1.00 13.00	C
		O PRO C 450	29.233 78.116 82.862 1.00 12.36	ŏ
		N PRO C 451	28.119 76.569 84.064 1.00 12.74	N
		CA PRO C 451	28.390 77.181 85.377 1.00 13.15	C
		CB PRO C 451	28.197 76.012 86.336 1.00 12.67	C
		CG PRO C 451	27.162 75.186 85.671 1.00 12.39	C
			27.439 75.269 84.197 1.00 12.16	C
		CD PRO C 451		_
		C PRO C 451		C
		O PRO C 451		0
		N LEU C 452		N
		CA LEU C 452	32.181 77.737 85.516 1.00 15.64	C
		CB LEU C 452	33.287 76.744 85.169 1.00 16.26	C
		CG LEU C 452	34.560 77.001 86.002 1.00 19.48	С
		CD1 LEU C 452	34.435 76.290 87.347 1.00 21.20	С
		CD2 LEU C 452	35.849 76.582 85.298 1.00 21.90	С
ATOM	11485	C LEU C 452	32.454 79.050 84.810 1.00 15.44	С
ATOM	11486	O LEU C 452	33.200 79.885 85.315 1.00 15.20	О
ATOM	11487	N LEU C 453	31.882 79.190 83.618 1.00 15.57	N
<b>ATOM</b>	11489	CA LEU C 453	32.088 80.352 82.774 1.00 15.79	С
<b>ATOM</b>	11491	CB LEU C 453	32.095 79.949 81.291 1.00 15.70	С
ATOM	11494	CG LEU C 453	33.186 78.997 80.762 1.00 14.82	С
		CD1 LEU C 453	33.164 78.838 79.217 1.00 14.87	С
		CD2 LEU C 453	34.546 79.476 81.193 1.00 15.29	C
		C LEU C 453	31.000 81.371 83.009 1.00 16.75	C
		O LEU C 453	31.170 82.565 82.744 1.00 16.28	Ö
		N SER C 454	29.864 80.893 83.497 1.00 18.15	N
				- •

ATOM	11508	CA SER C 454	28.758 81.777 83.832 1.00 19.00	C
ATOM	11510		27.495 80.975 84.056 1.00 18.44	С
		OG SER C 454	26.560 81.783 84.708 1.00 18.44	O
		C SER C 454	29.094 82.637 85.065 1.00 20.30	C
		O SER C 454		Ö
		N GLU C 455		N
			30.186 82.805 87.242 1.00 23.44	C
		CB GLU C 455	31.020 81.935 88.193 1.00 24.37	Č
		CG GLU C 455	31.392 82.607 89.521 1.00 27.84	C
		CD GLU C 455	30.268 82.622 90.581 1.00 32.12	C
		OE1 GLU C 455		C
			30.541 83.124 91.705 1.00 35.01	C
			30.993 84.008 86.802 1.00 23.44	C
			30.777 85.112 87.282 1.00 23.21	0
		N ILE C 456	31.910 83.788 85.866 1.00 24.06	N
		CA ILE C 456	32.804 84.853 85.416 1.00 24.51	C
			34.000 84.334 84.600 1.00 24.80	C
			34.763 83.221 85.304 1.00 25.39	C
			35.648 82.435 84.325 1.00 26.47	C
-			34.976 85.449 84.402 1.00 26.30	C
ATOM	11549	C ILE C 456	32.103 85.903 84.571 1.00 24.01	C
		O ILE C 456	32.354 87.069 84.791 1.00 24.09	О
			31.239 85.491 83.634 1.00 23.70	N
			30.848 86.330 82.487 1.00 23.66	С
<b>ATOM</b>	11555	CB TRP C 457	31.240 85.660 81.163 1.00 22.92	C
<b>ATOM</b>	11558	CG TRP C 457	32.702 85.571 80.944 1.00 21.92	C
<b>ATOM</b>	11559	CD1 TRP C 457	33.641 86.438 81.379 1.00 21.53	C
ATOM	11561	NE1 TRP C 457	34.889 86.017 81.000 1.00 21.44	N
ATOM	11563	<b>CE2 TRP C 457</b>	34.770 84.852 80.299 1.00 20.54	С
			33.410 84.535 80.249 1.00 21.29	C
		CE3 TRP C 457		C
		CZ3 TRP C 457		Č
				C
		CZ2 TRP C 457	35.752 84.054 79.706 1.00 21.84	C
		C TRP C 457	29.383 86.772 82.376 1.00 24.59	c
		O TRP C 457	29.107 87.719 81.658 1.00 25.61	ŏ
		N ASP C 458	28.440 86.136 83.051 1.00 25.15	N
		CA ASP C 458	27.042 86.483 82.822 1.00 25.63	C
		CB ASP C 458	26.113 85.302 83.133 1.00 25.67	Č
		CG ASP C 458	26.092 84.253 82.027 1.00 25.36	C
		OD1 ASP C 458		
			25.897 84.555 80.820 1.00 24.47	0
		OD2 ASP C 458	26.240 83.062 82.305 1.00 26.12	0
		C ASP C 458	26.676 87.673 83.676 1.00 26.06	C
		O ASP C 458	27.023 87.696 84.848 1.00 27.02	0
		O13 444 C 500	39.286 80.254 75.403 1.00 48.16	0
		S12 444 C 500	39.775 80.845 74.203 1.00 46.50	S
		O14 444 C 500	41.215 81.038 74.217 1.00 48.57	0
ATOM	11590	C01 444 C 500	39.451 79.745 72.851 1.00 48.48	С

ATOM	11591	C02 444 C 500	40.471 79.528 71.857 1.00 50.39	С
ATOM	11593	C03 444 C 500	40.204 78.677 70.760 1.00 51.15	С
ATOM	11595	C04 444 C 500	38.934 78.063 70.652 1.00 51.42	С
ATOM	11597	C05 444 C 500	37.927 78.301 71.643 1.00 51.23	С
ATOM	11599	C06 444 C 500	38.173 79.156 72.744 1.00 49.18	С
		N15 444 C 500	38.849 82.286 73.738 1.00 37.44	N
		C16 444 C 500	39.244 82.987 72.414 1.00 34.73	С
		C19 444 C 500	39.453 84.483 72.598 1.00 33.95	С
		F22 444 C 500	39.958 85.057 71.481 1.00 32.52	F
		F21 444 C 500	40.295 84.801 73.592 1.00 32.47	F
		F20 444 C 500	38.313 85.094 72.919 1.00 33.30	F
		C23 444 C 500	37.374 82.286 73.914 1.00 30.68	С
		C24 444 C 500	36.883 82.707 75.167 1.00 27.90	С
		C25 444 C 500	35.501 82.756 75.423 1.00 25.92	С
		C28 444 C 500	36.428 81.910 72.894 1.00 27.94	С
		C27 444 C 500	35.038 81.954 73.152 1.00 24.86	С
		C26 444 C 500	34.531 82.386 74.419 1.00 23.01	С
		C33 444 C 500	33.039 82.455 74.834 1.00 21.39	С
		C34 444 C 500	32.127 83.103 73.773 1.00 23.09	С
		F36 444 C 500	30.827 83.196 74.160 1.00 25.25	F
		F37 444 C 500	32.501 84.349 73.501 1.00 24.47	F
		F35 444 C 500	32.176 82.499 72.577 1.00 23.98	F
			32.816 83.068 76.132 1.00 19.34	O
		C38 444 C 500	32.555 81.023 75.003 1.00 21.35	С
		F39 444 C 500	33.054 80.224 74.045 1.00 20.88	F
		F40 444 C 500	33.018 80.546 76.167 1.00 22.16	F
		F41 444 C 500	31.227 80.824 75.072 1.00 22.76	F
ATOM	11630	N LEU D 220	64.184 118.262 74.238 1.00 20.17	N
ATOM	11632	CA LEU D 220	63.239 118.118 73.082 1.00 20.68	C
<b>ATOM</b>	11634	CB LEU D 220	61.787 118.487 73.472 1.00 20.83	С
ATOM	11637	CG LEU D 220	61.091 117.814 74.673 1.00 22.88	С
ATOM	11639	CD1 LEU D 220	60.214 118.775 75.506 1.00 23.53	C
ATOM	11643	CD2 LEU D 220	60.242 116.601 74.204 1.00 24.10	C
ATOM	11647	C LEU D 220	63.630 118.974 71.849 1.00 20.24	C
ATOM	11648	O LEU D 220	64.231 120.062 71.943 1.00 19.45	Ο
ATOM	11651	N THR D 221	63.204 118.463 70.699 1.00 20.07	N
ATOM	11653	CA THR D 221	63.367 119.110 69.398 1.00 19.70	С
ATOM	11655	CB THR D 221	63.137 118.039 68.248 1.00 19.86	C
ATOM	11657	OG1 THR D 221	61.778 117.533 68.250 1.00 17.93	O
ATOM	11659	CG2 THR D 221	64.002 116.776 68.470 1.00 19.27	C
ATOM	11663	C THR D 221	62.381 120.275 69.233 1.00 19.83	C
<b>ATOM</b>	11664	O THR D 221	61.242 120.214 69.745 1.00 19.99	Ο
ATOM	11665	N ALA D 222	62.794 121.315 68.501 1.00 19.56	N
ATOM	11667	CA ALA D 222	61.877 122.401 68.071 1.00 19.50	C
ATOM	11669	CB ALA D 222	62.496 123.189 66.914 1.00 19.19	C
ATOM	11673	C ALA D 222	60.474 121.901 67.654 1.00 19.70	C
ATOM	11674	O ALA D 222	59.453 122.539 67.958 1.00 19.07	O
ATOM	11675	N ALA D 223	60.460 120.770 66.946 1.00 19.78	N

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59.254 120.239 66.365 1.00 20.35 ATOM 11677 CA ALA D 223 C C 59.617 119.252 65.263 1.00 20.37 ATOM 11679 CB ALA D 223 ATOM 11683 C ALA D 223 58.373 119.569 67.428 1.00 21.69 C ATOM 11684 O ALA D 223 57.144 119.455 67.248 1.00 22.25 0 58.989 119.090 68.519 1.00 22.23 N ATOM 11685 N GLN D 224 58.235 118.471 69.621 1.00 22.06 C ATOM 11687 CA GLN D 224 59.127 117.536 70.420 1.00 22.22 C ATOM 11689 CB GLN D 224 59.198 116.092 69.897 1.00 21.63 ATOM 11692 CG GLN D 224  $\mathbf{C}$ 60.211 115.250 70.715 1.00 20.75 C ATOM 11695 CD GLN D 224 61.304 115.751 71.089 1.00 17.25 0 ATOM 11696 OE1 GLN D 224 59.845 113.985 71.000 1.00 19.61 N ATOM 11697 NE2 GLN D 224 ATOM 11700 C GLN D 224 57.661 119.565 70.533 1.00 22.14 C ATOM 11701 O GLN D 224 56.567 119.426 71.084 1.00 21.67 0 ATOM 11702 N GLU D 225 58.410 120.650 70.662 1.00 22.21 N ATOM 11704 CA GLU D 225 57.931 121.845 71.327 1.00 22.89 C C ATOM 11706 CB GLU D 225 59.041 122.868 71.392 1.00 23.15 ATOM 11709 CG GLU D 225 C 60.227 122.424 72.216 1.00 25.60 ATOM 11712 CD GLU D 225 60.197 123.017 73.609 1.00 28.92  $\mathbf{C}$ 59.079 123.047 74.201 1.00 30.22 0 ATOM 11713 OE1 GLU D 225 61.285 123.459 74.087 1.00 30.46 ATOM 11714 OE2 GLU D 225 0 ATOM 11715 C GLU D 225 56.774 122.484 70.576 1.00 23.00 C 55.854 123.014 71.190 1.00 23.62 ATOM 11716 O GLU D 225 O ATOM 11717 N LEU D 226 56,839 122.478 69,246 1.00 22.91 N ATOM 11719 CA LEU D 226 55.791 123.087 68.419 1.00 22.54  $\mathbf{C}$ ATOM 11721 CB LEU D 226 56.160 123.049 66.920 1.00 22.44  $\mathbf{C}$ 55.179 123.602 65.874 1.00 21.51  $\mathbf{C}$ ATOM 11724 CG LEU D 226 55.168 125.088 65.911 1.00 21.08 ATOM 11726 CD1 LEU D 226 C C 55.530 123.149 64.472 1.00 21.32 ATOM 11730 CD2 LEU D 226 ATOM 11734 C LEU D 226 54.524 122.298 68.684 1.00 22.31 C 53.482 122.859 68.991 1.00 21.87 ATOM 11735 O LEU D 226 0 ATOM 11736 N MET D 227 54.658 120.982 68.605 1.00 22.30 N ATOM 11738 CA MET D 227 53.538 120.070 68.740 1.00 22.44 C 54.020 118.643 68.560 1.00 22.58 C ATOM 11740 CB MET D 227 52.996 117.601 68.927 1.00 25.04  $\mathbf{C}$ ATOM 11743 CG MET D 227 53.804 115.999 69.121 1.00 30.41 S ATOM 11746 SD MET D 227  $\mathbf{C}$ ATOM 11747 CE MET D 227 54.339 115.735 67.302 1.00 28.56 ATOM 11751 C MET D 227 52.872 120.209 70.088 1.00 21.96 C ATOM 11752 O MET D 227 51.663 120.213 70.149 1.00 22.52 0 ATOM 11753 N ILE D 228 53.663 120.324 71.158 1.00 21.49 N ATOM 11755 CA ILE D 228 53.147 120.394 72.530 1.00 20.69  $\mathbf{C}$  $\mathbf{C}$ ATOM 11757 CB ILE D 228 54.263 120.087 73.578 1.00 20.40 ATOM 11759 CG1 ILE D 228 54.718 118.623 73.467 1.00 19.82  $\mathbf{C}$  $\mathbf{C}$ 56.110 118.356 74.007 1.00 19.30 ATOM 11762 CD1 ILE D 228 53.753 120.351 74.990 1.00 19.35 C ATOM 11766 CG2 ILE D 228 ATOM 11770 C ILE D 228 52.506 121.740 72.823 1.00 20.46 C ATOM 11771 O ILE D 228 51.410 121.802 73.339 1.00 20.39 O 53.192 122.814 72.480 1.00 20.51 ATOM 11772 N GLN D 229 N 52.653 124.151 72.667 1.00 20.98 ATOM 11774 CA GLN D 229  $\mathbf{C}$ 

GLN D 229	53.689 125.192 72.259 1.00 21.36	С
		C
		C
		О
		N
		C
		O
		N
	50.144 123.763 69.878 1.00 21.20	C
	50.355 123.070 68.529 1.00 21.82	C
GLN D 230		C
		C
		Ο
		N
	48.973 123.165 70.578 1.00 20.57	С
	47.949 123.806 70.692 1.00 20.72	O
		N
		C
LEU D 231		C
LEU D 231	48.878 118.858 71.142 1.00 19.65	C
	49.388 117.583 71.789 1.00 18.59	С
	47.682 118.591 70.251 1.00 19.17	C
	47.671 122.090 73.066 1.00 19.13	C
EU D 231	46.478 122.222 73.342 1.00 18.20	O
'AL D 232	48.654 122.653 73.773 1.00 18.56	N
	48.404 123.362 75.012 1.00 18.84	C
VAL D 232	49.727 123.748 75.777 1.00 18.93	C
VAL D 232	49.454 124.704 76.948 1.00 17.92	С
VAL D 232	50.400 122.506 76.333 1.00 20.00	C
AL D 232	47.571 124.594 74.720 1.00 19.13	C
'AL D 232	46.563 124.843 75.404 1.00 19.31	O
LA D 233	47.995 125.348 73.704 1.00 19.27	N
	47.355 126.586 73.291 1.00 19.37	C
	48.204 127.240 72.269 1.00 19.55	C
LA D 233	45.958 126.371 72.728 1.00 19.98	C
LA D 233	45.089 127.187 72.914 1.00 20.08	O
LA D 234	45.758 125.264 72.033 1.00 21.06	N
ALA D 234	44.474 124.889 71.456 1.00 22.23	C
ALA D 234	44.642 123.592 70.591 1.00 22.36	C
LA D 234	43.450 124.632 72.544 1.00 23.31	С
LA D 234	42.309 125.095 72.482 1.00 24.03	O
LN D 235	43.874 123.838 73.512 1.00 24.09	N
GLN D 235	43.114 123.529 74.699 1.00 24.90	C
GLN D 235	44.009 122.697 75.611 1.00 25.31	C
GLN D 235	43.341 122.166 76.838 1.00 26.35	C
GLN D 235	43.536 120.682 76.988 1.00 26.06	C
GLN D 235	44.651 120.189 76.890 1.00 25.19	Ο
GLN D 235	42.446 119.967 77.242 1.00 28.28	N
	GLN D 229 GLN D 229 GLN D 229 GLN D 229 LN D 229 LN D 230 GLN D 230 LN D 230 LN D 231 LEU D 232 VAL D 233 LA D 234 LA D 235 GLN D 235	GLN D 229 55.481 127.379 72.278 1.00 26.43 57.127 126.117 73.147 1.00 26.80 LN D 229 51.385 124.356 71.862 1.00 20.82 50.497 125.119 72.250 1.00 20.41 51.304 123.665 70.732 1.00 20.92 50.144 123.763 69.878 1.00 21.20 50.355 123.070 68.529 1.00 21.82 50.144 123.763 69.878 1.00 21.20 50.355 123.070 68.529 1.00 21.82 50.144 123.763 69.878 1.00 21.20 50.355 123.070 68.529 1.00 21.82 50.144 123.825 67.353 1.00 23.74 48.367 123.253 67.014 1.00 26.14 48.050 122.152 67.460 1.00 26.53 47.572 123.986 66.215 1.00 28.27 LN D 230 48.973 123.165 70.578 1.00 20.57 47.949 123.806 70.692 1.00 20.72 49.134 121.937 71.060 1.00 20.16 48.089 121.266 71.827 1.00 19.67 48.878 118.858 71.142 1.00 19.65 49.388 117.583 71.789 1.00 18.59 47.682 118.591 70.251 1.00 19.17 46.478 122.222 73.342 1.00 18.20 44.644 123.362 75.012 1.00 18.84 49.727 123.748 75.777 1.00 18.93 49.454 124.704 76.948 1.00 17.92 50.400 122.506 76.333 1.00 20.00 47.571 124.594 74.720 1.00 19.31 48.20 412.209 47.571 124.594 74.720 1.00 19.31 48.20 412.209 47.571 124.594 74.720 1.00 19.31 48.204 127.240 72.269 1.00 19.55 48.204 127.240 72.269 1.00 19.55 48.40 123.34 42.309 125.056 76.333 1.00 20.08 44.474 124.889 71.456 1.00 22.23 44.642 123.592 70.591 1.00 22.36 44.671 123.838 73.512 1.00 24.09 43.114 123.529 74.699 1.00 24.90 44.009 122.697 75.611 1.00 25.31 43.341 122.166 76.838 1.00 26.06 44.651 120.189 76.890 1.00 25.19

ATOM 11876	C GLN D 235	42.686 124.780 75.425 1.00 25.24	С
		41.538 124.919 75.809 1.00 25.03	O
	N LEU D 236	43.628 125.689 75.599 1.00 26.10	N
	CA LEU D 236	43.390 126.942 76.297 1.00 27.26	C
	CB LEU D 236	44.722 127.668 76.471 1.00 27.42	C
	CG LEU D 236	44.745 128.873 77.398 1.00 27.58	С
	CD1 LEU D 236	44.605 128.433 78.835 1.00 28.10	C
	CD2 LEU D 236	46.041 129.627 77.178 1.00 28.09	C
ATOM 11895		42.405 127.861 75.581 1.00 28.27	C
	O LEU D 236	41.637 128.566 76.228 1.00 28.34	O
	N GLN D 237	42.452 127.861 74.252 1.00 29.81	N
	CA GLN D 237	41.590 128.705 73.426 1.00 31.35	С
	CB GLN D 237	42.258 128.976 72.061 1.00 31.48	C
	CG GLN D 237	43.664 129.641 72.208 1.00 32.45	C
	CD GLN D 237	44.260 130.205 70.924 1.00 31.73	С
	OE1 GLN D 237	43.818 129.873 69.838 1.00 32.01	Ο
	NE2 GLN D 237	45.284 131.045 71.060 1.00 32.05	N
ATOM 11912	C GLN D 237	40.183 128.123 73.246 1.00 32.76	C
	O GLN D 237	39.270 128.827 72.802 1.00 32.45	О
ATOM 11914	N CYS D 238	40.016 126.844 73.594 1.00 34.75	N
	CA CYS D 238	38.725 126.156 73.503 1.00 36.55	C
ATOM 11918	CB CYS D 238	38.940 124.656 73.302 1.00 36.77	C
	SG CYS D 238	39.390 124.234 71.597 1.00 39.71	S
	C CYS D 238	37.857 126.431 74.741 1.00 37.59	C
	O CYS D 238		Ο
	N ASN D 239	38.506 126.442 75.905 1.00 39.05	N
	CA ASN D 239	37.928 126.902 77.178 1.00 40.28	C
ATOM 11928	CB ASN D 239	39.011 126.876 78.261 1.00 40.18	$\mathbf{C}$
ATOM 11931	CG ASN D 239	38.750 125.862 79.316 1.00 39.87	C
ATOM 11932	OD1 ASN D 239	38.594 126.222 80.479 1.00 38.69	О
ATOM 11933	ND2 ASN D 239	38.710 124.571 78.932 1.00 39.42	N
ATOM 11936	C ASN D 239	37.351 128.324 77.125 1.00 41.84	C
ATOM 11937	O ASN D 239	36.176 128.523 77.412 1.00 42.19	О
ATOM 11938	N LYS D 240	38.197 129.304 76.794 1.00 43.61	N
ATOM 11940	CA LYS D 240	37.783 130.711 76.662 1.00 45.18	C
ATOM 11942	CB LYS D 240	38.901 131.563 76.017 1.00 45.40	С
ATOM 11945	CG LYS D 240	40.076 131.903 76.939 1.00 46.18	С
ATOM 11948	CD LYS D 240	40.872 133.129 76.457 1.00 46.88	C
ATOM 11951	CE LYS D 240	42.395 132.894 76.551 1.00 47.30	C
ATOM 11954	NZ LYS D 240	42.955 132.129 75.377 1.00 46.32	N
ATOM 11958	C LYS D 240	36.516 130.833 75.808 1.00 46.26	C
	O LYS D 240	35.514 131.406 76.255 1.00 46.33	О
	N ARG D 241	36.600 130.284 74.583 1.00 47.51	N
	CA ARG D 241	35.486 130.183 73.604 1.00 48.07	C
	CB ARG D 241	35.823 129.102 72.528 1.00 48.22	C
	CG ARG D 241	34.952 129.071 71.245 1.00 48.46	C
	CD ARG D 241	35.512 129.840 70.020 1.00 48.76	С
ATOM 11973	NE ARG D 241	34.509 130.762 69.449 1.00 49.21	N

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ATOM 11975 CZ ARG D 241	34.720 131.636 68.452 1.00 48.77	С
ATOM 11976 NH1 ARG D 241	35.906 131.740 67.862 1.00 48.93	N
ATOM 11979 NH2 ARG D 241	33.727 132.418 68.041 1.00 48.40	N
ATOM 11982 C ARG D 241	34.132 129.908 74.311 1.00 48.33	C
ATOM 11983 O ARG D 241	33.081 130.399 73.859 1.00 48.47	O
ATOM 11984 N SER D 242	34.183 129.135 75.410 1.00 48.36	N
ATOM 11986 CA SER D 242	33.093 129.062 76.407 1.00 48.27	С
ATOM 11988 CB SER D 242	32.845 127.612 76.863 1.00 48.06	С
ATOM 11991 OG SER D 242	33.856 126.745 76.395 1.00 47.14	Ο
ATOM 11993 C SER D 242	33.342 129.991 77.626 1.00 48.31	C
ATOM 11994 O SER D 242	34.033 129.642 78.592 1.00 48.11	О
ATOM 11995 N VAL D 249	22.728 129.089 80.179 1.00 27.32	N
ATOM 11997 CA VAL D 249	22.676 127.776 80.822 1.00 27.70	C
ATOM 11999 CB VAL D 249	24.089 127.310 81.263 1.00 27.90	C
ATOM 12001 CG1 VAL D 249	24.052 126.476 82.555 1.00 27.79	C
ATOM 12005 CG2 VAL D 249	24.771 126.513 80.139 1.00 28.41	C
ATOM 12009 C VAL D 249	21.752 127.785 82.035 1.00 27.71	C
ATOM 12010 O VAL D 249	21.708 128.764 82.778 1.00 27.82	O
ATOM 12011 N THR D 250	21.055 126.669 82.251 1.00 27.63	N
ATOM 12013 CA THR D 250	20.052 126.550 83.310 1.00 27.53	C
ATOM 12015 CB THR D 250	19.260 125.242 83.156 1.00 27.53	C
ATOM 12017 OG1 THR D 250	18.840 125.082 81.799 1.00 27.43	О
ATOM 12019 CG2 THR D 250	17.959 125.284 83.951 1.00 27.68	С
ATOM 12023 C THR D 250	20.709 126.563 84.687 1.00 27.51	C
ATOM 12024 O THR D 250	21.724 125.885 84.890 1.00 27.39	O
ATOM 12025 N PRO D 251	20.141 127.312 85.635 1.00 27.46	N
ATOM 12026 CA PRO D 251	20.720 127.387 86.980 1.00 27.48	С
ATOM 12028 CB PRO D 251	20.172 128.715 87.539 1.00 27.49	С
ATOM 12031 CG PRO D 251	19.156 129.216 86.544 1.00 27.35	С
ATOM 12034 CD PRO D 251	18.929 128.142 85.522 1.00 27.39	С
ATOM 12037 C PRO D 251	20.334 126.198 87.867 1.00 27.56	С
ATOM 12038 O PRO D 251	19.190 125.733 87.845 1.00 27.69	О
ATOM 12039 N TRP D 252	21.313 125.725 88.634 1.00 27.62	N
ATOM 12041 CA TRP D 252	21.182 124.581 89.549 1.00 27.55	C
ATOM 12043 CB TRP D 252	22.278 124.691 90.628 1.00 27.55	С
ATOM 12046 CG TRP D 252	22.524 123.453 91.445 1.00 27.48	С
ATOM 12047 CD1 TRP D 252	22.550 123.360 92.816 1.00 27.50	С
ATOM 12049 NE1 TRP D 252	22.819 122.066 93.197 1.00 27.51	N
ATOM 12051 CE2 TRP D 252	22.988 121.295 92.072 1.00 26.94	С
ATOM 12052 CD2 TRP D 252	22.809 122.137 90.952 1.00 26.92	С
ATOM 12053 CE3 TRP D 252	22.921 121.577 89.672 1.00 25.87	С
ATOM 12055 CZ3 TRP D 252	23.193 120.232 89.547 1.00 24.88	С
ATOM 12057 CH2 TRP D 252	23.359 119.422 90.674 1.00 25.44	C
ATOM 12059 CZ2 TRP D 252	23.269 119.930 91.944 1.00 25.75	С
ATOM 12061 C TRP D 252	19.786 124.407 90.196 1.00 27.43	C
ATOM 12062 O TRP D 252	19.248 125.312 90.836 1.00 27.03	O
ATOM 12063 N ALA D 260	11.952 118.155 95.227 1.00 23.00	N
ATOM 12065 CA ALA D 260	12.344 116.854 94.696 1.00 23.32	С

ATOM	12067 CB ALA D 260	11.832 115.729 95.597 1.00 23.03	С
ATOM	12071 C ALA D 260	11.876 116.645 93.244 1.00 23.64	С
ATOM	12072 O ALA D 260	12.530 115.918 92.481 1.00 23.69	Ο
ATOM	12073 N ALA D 261	10.772 117.302 92.861 1.00 23.93	N
ATOM	12075 CA ALA D 261	10.134 117.103 91.542 1.00 24.02	С
ATOM	12077 CB ALA D 261	8.621 117.448 91.625 1.00 24.06	C
ATOM	12081 C ALA D 261	10.811 117.867 90.378 1.00 24.05	С
	12082 O ALA D 261	11.689 117.323 89.700 1.00 23.74	O
ATOM	12083 N ASP D 262	10.406 119.124 90.161 1.00 24.17	N
	12085 CA ASP D 262	10.994 119.991 89.121 1.00 24.14	C
ATOM	12087 CB ASP D 262	10.240 121.335 89.036 1.00 24.11	C
ATOM	12090 CG ASP D 262	8.859 121.204 88.403 1.00 24.03	С
	12091 OD1 ASP D 262	8.783 120.729 87.250 1.00 24.40	Ο
ATOM	12092 OD2 ASP D 262	7.801 121.556 88.973 1.00 22.47	Ο
ATOM	12093 C ASP D 262	12.487 120.270 89.353 1.00 24.08	C
	12094 O ASP D 262	13.148 120.862 88.498 1.00 24.02	O
ATOM	12095 N ALA D 263	12.995 119.863 90.519 1.00 24.08	N
		14.406 119.986 90.863 1.00 24.12	C
ATOM	12099 CB ALA D 263	14.605 119.827 92.363 1.00 24.05	C
ATOM	12103 C ALA D 263	15.235 118.953 90.116 1.00 24.31	C
	12104 O ALA D 263	16.154 119.316 89.388 1.00 24.40	Ο
	12105 N ARG D 264	14.906 117.672 90.298 1.00 24.43	N
	12107 CA ARG D 264	15.637 116.571 89.645 1.00 24.41	C
	12109 CB ARG D 264		C
	12112 CG ARG D 264	15.219 114.559 91.207 1.00 26.41	С
	12115 CD ARG D 264	16.128 113.313 91.153 1.00 28.02	C
	12118 NE ARG D 264	15.936 112.468 92.338 1.00 29.58	N
	12120 CZ ARG D 264	16.344 112.768 93.581 1.00 30.11	C
	12121 NH1 ARG D 264	17.004 113.895 93.847 1.00 30.32	N
	12124 NH2 ARG D 264		N
	12127 C ARG D 264		С
	12128 O ARG D 264		O
		14.686 117.204 87.514 1.00 23.03	N
		14.637 117.457 86.071 1.00 22.54	C
	12133 CB GLN D 265	13.273 118.023 85.671 1.00 22.69	C
	12136 CG GLN D 265	12.092 117.084 85.914 1.00 23.55	C
	12139 CD GLN D 265	11.692 116.289 84.682 1.00 24.35	С
	12140 OE1 GLN D 265	12.547 115.948 83.836 1.00 24.12	0
	12141 NE2 GLN D 265	10.391 115.972 84.582 1.00 23.27	N
	12144 C GLN D 265	15.674 118.475 85.669 1.00 21.78	С
	12145 O GLN D 265	16.368 118.314 84.667 1.00 21.44	O
-	12146 N GLN D 266	15.744 119.532 86.469 1.00 20.95	N
	12148 CA GLN D 266	16.585 120.686 86.191 1.00 20.34	С
ATOM	12150 CB GLN D 266	16.051 121.911 86.942 1.00 20.32	С
	12153 CG GLN D 266	14.887 122.611 86.250 1.00 19.85	C
	12156 CD GLN D 266	14.876 124.095 86.515 1.00 19.30	C
_	12157 OE1 GLN D 266	13.819 124.682 86.767 1.00 18.49	Ο
ATOM	12158 NE2 GLN D 266	16.054 124.712 86.462 1.00 18.45	N

ATOM	12161	C GLN D 266	18.060 120.493 86.534 1.00 19.81	. C
ATOM	12162	O GLN D 266	18.918 121.083 85.887 1.00 19.75	O
ATOM	12163	N ARG D 267	18.367 119.707 87.558 1.00 19.26	N
ATOM	12165	<b>CA ARG D 267</b>	19.760 119.484 87.928 1.00 18.91	С
		<b>CB ARG D 267</b>	19.875 118.831 89.307 1.00 18.86	С
		CG ARG D 267	19.368 119.716 90.458 1.00 19.30	С
		CD ARG D 267	20.088 119.498 91.791 1.00 19.49	C
		NE ARG D 267	19.276 119.747 92.990 1.00 19.05	N
		<b>CZ ARG D 267</b>	18.259 118.992 93.394 1.00 19.29	С
		NH1 ARG D 267		N
		NH2 ARG D 267		N
		C ARG D 267	20.372 118.607 86.850 1.00 18.71	C
		O ARG D 267	21.551 118.745 86.522 1.00 18.59	Ο
		N PHE D 268	19.540 117.732 86.281 1.00 18.40	N
		CA PHE D 268	19.941 116.860 85.186 1.00 18.11	С
		<b>CB PHE D 268</b>	18.951 115.694 85.016 1.00 17.95	С
		CG PHE D 268	19.275 114.814 83.856 1.00 17.37	C
		CD1 PHE D 268	20.359 113.949 83.912 1.00 17.56	C
		CE1 PHE D 268	20.693 113.154 82.823 1.00 17.07	С
		CZ PHE D 268	19.946 113.236 81.669 1.00 17.17	C
		<b>CE2 PHE D 268</b>	18.865 114.109 81.602 1.00 16.96	C
		CD2 PHE D 268	18.542 114.893 82.686 1.00 16.46	С
		C PHE D 268	20.098 117.636 83.865 1.00 18.05	С
		O PHE D 268	21.070 117.418 83.151 1.00 17.93	O
		N ALA D 269	19.159 118.534 83.547 1.00 17.95	N
		CA ALA D 269	19.231 119.343 82.316 1.00 17.76	С
		CB ALA D 269	17.983 120.183 82.140 1.00 17.62	С
		C ALA D 269	20.461 120.235 82.347 1.00 17.71	C
		O ALA D 269	21.244 120.267 81.404 1.00 17.51	O
		N HIS D 270	20.615 120.954 83.451 1.00 17.77	N
		CA HIS D 270	21.846 121.670 83.766 1.00 18.05	C
		<b>CB HIS D 270</b>		С
		CG HIS D 270	23.061 122.777 85.689 1.00 19.88	C
		ND1 HIS D 270	23.591 123.949 85.199 1.00 21.95	N
		CE1 HIS D 270	24.743 124.191 85.798 1.00 22.95	· C
		NE2 HIS D 270	24.975 123.223 86.664 1.00 21.99	N
		CD2 HIS D 270	23.941 122.322 86.610 1.00 21.49	С
		C HIS D 270	23.122 120.815 83.569 1.00 17.75	С
		O HIS D 270	24.135 121.307 83.066 1.00 17.56	O
		N PHE D 271	23.075 119.546 83.959 1.00 17.53	N
		CA PHE D 271	24.208 118.640 83.727 1.00 17.53	C
		CB PHE D 271	24.053 117.315 84.477 1.00 17.68	C
		CG PHE D 271	24.873 117.217 85.731 1.00 18.67	С
ATOM	12243	CD1 PHE D 271	24.595 118.009 86.823 1.00 19.66	С
		CE1 PHE D 271	25.339 117.902 87.997 1.00 20.35	C
		CZ PHE D 271	26.364 116.992 88.092 1.00 20.48	C
		CE2 PHE D 271	26.649 116.183 87.019 1.00 20.74	C
ATOM	12251	CD2 PHE D 271	25.898 116.292 85.837 1.00 20.72	С

ATOM	12253	C PHE D 271	24.379 118.341 82.244 1.00 17.14	C
		O PHE D 271		Ο
		N THR D 272		N
		CA THR D 272	23.401 117.786 80.092 1.00 16.56	С
		CB THR D 272	22.085 117.262 79.459 1.00 16.45	C
		OGI THR D 272		O
		CG2 THR D 272		Č
		C THR D 272		C
		O THR D 272		Ö
-		N GLU D 273		N
		CA GLU D 273		C
		CB GLU D 273		č
		CG GLU D 273		C
		CD GLU D 273		C
		OEI GLU D 273		0
				0
		OE2 GLU D 273		
		C GLU D 273		C
		O GLU D 273		O
		N LEU D 274		N
		CA LEU D 274		C
		CB LEU D 274		C
		CG LEU D 274		C
		CD1 LEU D 274		C
		CD2 LEU D 274		C
		C LEU D 274		C
		O LEU D 274		О
		N ALA D 275		N
		CA ALA D 275	28.155 118.196 78.827 1.00 15.87	С
ATOM	12307	CB ALA D 275	27.343 116.937 79.055 1.00 15.82	C
		C ALA D 275		С
ATOM	12312	O ALA D 275	28.977 118.147 76.585 1.00 15.15	О
ATOM	12313	N ILE D 276	27.139 119.397 76.924 1.00 15.76	N
		CA ILE D 276	26.991 119.821 75.523 1.00 15.90	C
ATOM	12317	CB ILE D 276	25.584 120.473 75.249 1.00 15.67	C
ATOM	12319	CG1 ILE D 276	24.528 119.400 74.955 1.00 14.78	C
<b>ATOM</b>	12322	CD1 ILE D 276	23.134 119.832 75.206 1.00 13.45	C
ATOM	12326	CG2 ILE D 276	25.634 121.438 74.066 1.00 15.58	C
ATOM	12330	C ILE D 276	28.102 120.799 75.177 1.00 16.67	C
ATOM	12331	O ILE D 276	28.726 120.702 74.126 1.00 16.45	О
ATOM	12332	N ILE D 277	28.322 121.758 76.067 1.00 17.62	N
ATOM	12334	CA ILE D 277	29.462 122.661 75.960 1.00 18.37	C
ATOM	12336	CB ILE D 277	29.518 123.635 77.180 1.00 18.49	C
		CG1 ILE D 277	28.612 124.842 76.952 1.00 17.80	С
		CD1 ILE D 277	28.175 125.500 78.222 1.00 17.69	C
		CG2 ILE D 277	30.957 124.099 77.457 1.00 18.88	Č
		C ILE D 277	30.767 121.860 75.859 1.00 18.96	C
ATOM			31.598 122.169 75.026 1.00 19.51	Ö
		N SER D 278	30.955 120.845 76.698 1.00 19.34	N

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12353	CA SER D 278	32.180 120.061 76.639 1.00 19.82	C
			С
		32.603 119.456 78.931 1.00 20.32	O
		32.370 119.441 75.268 1.00 20.11	С
			0
			N
			С
			C
			С
			С
		31.740 119.042 72.341 1.00 21.16	С
		32.469 118.620 71.457 1.00 21.05	Ο
		31.259 120.278 72.375 1.00 21.62	N
		31.549 121.265 71.344 1.00 22.33	C
		30.526 122.415 71.428 1.00 22.48	C
		31.071 123.835 71.198 1.00 24.61	С
		30.630 124.844 72.270 1.00 26.80	C
12389	OE1 GLN D 280	29.492 125.353 72.230 1.00 27.38	0
			N
12393	C GLN D 280	33.027 121.735 71.465 1.00 22.39	C
12394	O GLN D 280	33.717 121.917 70.454 1.00 22.31	Ο
12395	N GLU D 281	33.492 121.905 72.708 1.00 22.30	N
12397	CA GLU D 281	34.896 122.230 73.038 1.00 22.00	С
		35.091 122.375 74.575 1.00 21.87	C
		34.897 123.780 75.148 1.00 21.96	С
		35.016 123.853 76.670 1.00 22.51	С
12406	OE1 GLU D 281	35.522 122.911 77.312 1.00 24.35	О
12407	OE2 GLU D 281	34.597 124.871 77.242 1.00 22.76	О
12408	C GLU D 281	35.877 121.174 72.523 1.00 21.82	C
12409	O GLU D 281	37.006 121.501 72.122 1.00 21.34	О
12410	N ILE D 282	35.453 119.913 72.576 1.00 21.79	N
12412	CA ILE D 282	36.289 118.800 72.159 1.00 22.01	С
			С
12416	CG1 ILE D 282	35.959 117.470 74.259 1.00 22.50	C
12419	CD1 ILE D 282	34.986 116.570 74.979 1.00 23.27	С
12423	CG2 ILE D 282	36.494 116.248 72.121 1.00 20.81	C
12427	C ILE D 282	36.368 118.734 70.645 1.00 22.12	C
12428	O ILE D 282		О
12429	N VAL D 283		N
12431	CA VAL D 283	35.297 119.088 68.499 1.00 22.70	С
12433	CB VAL D 283	33.883 119.307 67.897 1.00 22.96	С
12435	CG1 VAL D 283		С
12439	CG2 VAL D 283	33.040 118.045 68.062 1.00 24.38	С
12443	C VAL D 283	36.283 120.163 68.037 1.00 22.61	C
12444	O VAL D 283	37.210 119.865 67.295 1.00 22.62	О
12445	N ASP D 284	36.088 121.392 68.512 1.00 22.66	N
		36.959 122.533 68.215 1.00 22.70	C
12449	CB ASP D 284	36.633 123.736 69.115 1.00 22.97	C
	12355 12358 12360 12361 12362 12364 12366 12376 12377 12378 12378 12385 12385 12385 12385 12389 12390 12393 12394 12395 12402 12405 12407 12408 12407 12408 12409 12410 12412 12414 12416 12423 12427 12428 12429 12431 12433 12435 12435 12436	12355 CB SER D 278 12360 C SER D 278 12361 O SER D 278 12362 N VAL D 279 12364 CA VAL D 279 12366 CB VAL D 279 12368 CG1 VAL D 279 12372 CG2 VAL D 279 12376 C VAL D 279 12377 O VAL D 279 12378 N GLN D 280 12380 CA GLN D 280 12382 CB GLN D 280 12385 CG GLN D 280 12385 CG GLN D 280 12386 CD GLN D 280 12387 O ELN D 280 12388 CD GLN D 280 12389 OE1 GLN D 280 12390 NE2 GLN D 280 12391 C GLN D 280 12392 CB GLU D 281 12395 N GLU D 281 12397 CA GLU D 281 12402 CG GLU D 281 12405 CD GLU D 281 12406 OE1 GLU D 281 12406 OE1 GLU D 281 12407 OE2 GLU D 281 12408 C GLU D 281 12409 O GLU D 281 12409 O GLU D 281 12409 O GLU D 281 12401 N ILE D 282 12412 CA ILE D 282 12414 CB ILE D 282 12415 CG1 ILE D 282 12427 C ILE D 282 12428 O ILE D 282 12429 N VAL D 283 12431 CA VAL D 283 12433 CB VAL D 283	12360 C SER D 278 12361 O SER D 278 12362 N VAL D 279 12368 CA VAL D 279 12368 CGI VAL D 279 12376 C VAL D 279 12377 O VAL D 279 12378 N GLN D 280 12380 CA GLN D 280 12382 CB GLN D 280 12382 CB GLN D 280 12383 CG GLN D 280 12383 CB GLN D 280 12383 CB GLN D 280 12383 CB GLN D 280 12384 CB GLN D 280 12385 CG GLN D 280 12389 OEI GLN D 280 12390 NE2 GLN D 280 12390 CG GLU D 281 12400 CG GL

		CG ASP D 284	35.339 124.424 68.740 1.00 23.36	C
		OD1 ASP D 284	35.035 125.488 69.322 1.00 25.20	О
		OD2 ASP D 284	34.549 123.964 67.897 1.00 24.52	О
ATOM	12455	C ASP D 284	38.412 122.175 68.406 1.00 22.40	С
ATOM	12456	O ASP D 284	39.231 122.440 67.554 1.00 23.22	О
		N PHE D 285	38.719 121.573 69.536 1.00 22.24	N
ATOM	12459	CA PHE D 285	40.040 121.016 69.808 1.00 22.02	С
		CB PHE D 285	40.082 120.433 71.217 1.00 21.60	C
		CG PHE D 285	41.437 119.970 71.629 1.00 20.44	С
ATOM	12465	CD1 PHE D 285	42.418 120.872 71.940 1.00 20.37	С
ATOM	12467	CE1 PHE D 285	43.658 120.443 72.320 1.00 19.67	C
ATOM	12469	CZ PHE D 285	43.933 119.132 72.385 1.00 18.57	C
ATOM	12471	CE2 PHE D 285	42.984 118.230 72.077 1.00 19.85	C
		CD2 PHE D 285	41.740 118.639 71.691 1.00 20.07	C
ATOM	12475	C PHE D 285	40.520 119.941 68.820 1.00 22.57	C
ATOM	12476	O PHE D 285	41.611 120.086 68.279 1.00 23.04	О
		N ALA D 286	39.754 118.869 68.587 1.00 22.62	N
ATOM	12479	CA ALA D 286	40.178 117.847 67.617 1.00 23.09	C
ATOM	12481	CB ALA D 286	39.134 116.752 67.491 1.00 23.17	C
ATOM	12485	C ALA D 286	40.513 118.405 66.219 1.00 23.54	C
ATOM	12486	O ALA D 286	41.352 117.849 65.515 1.00 23.29	О
ATOM	12487	N LYS D 287	39.852 119.497 65.833 1.00 23.97	N
ATOM	12489	CA LYS D 287	40.030 120.100 64.525 1.00 24.53	C
ATOM	12491	CB LYS D 287	38.860 121.077 64.177 1.00 25.33	C
ATOM	12494	CG LYS D 287	37.481 120.465 63.567 1.00 27.96	C
ATOM	12497	CD LYS D 287	37.368 118.867 63.694 1.00 32.35	C
		CE LYS D 287	35.911 118.136 63.551 1.00 33.10	C
ATOM	12503	NZ LYS D 287	34.754 118.860 62.906 1.00 33.08	N
ATOM	12507	C LYS D 287	41.399 120.800 64.479 1.00 24.04	C
ATOM	12508	O LYS D 287	41.974 120.936 63.395 1.00 24.35	Ο
ATOM	12509	N GLN D 288	41.919 121.225 65.641 1.00 23.24	N
ATOM	12511	CA GLN D 288	43.290 121.804 65.768 1.00 22.64	C
ATOM	12513	CB GLN D 288	43.377 122.829 66.910 1.00 22.82	C
ATOM	12516	CG GLN D 288	42.381 123.965 66.878 1.00 23.86	C
<b>ATOM</b>	12519	CD GLN D 288	42.710 124.969 65.844 1.00 26.39	С
ATOM	12520	OE1 GLN D 288	43.848 125.429 65.755 1.00 29.45	O
ATOM	12521	NE2 GLN D 288	41.729 125.323 65.041 1.00 27.81	N
ATOM	12524	C GLN D 288	44.446 120.807 66.017 1.00 21.77	C
ATOM	12525	O GLN D 288	45.604 121.213 65.961 1.00 21.00	O
ATOM	12526	N VAL D 289	44.156 119.538 66.324 1.00 21.18	N
ATOM	12528	CA VAL D 289	45.220 118.544 66.510 1.00 20.73	C
ATOM	12530	CB VAL D 289	44.738 117.276 67.243 1.00 20.79	С
ATOM	12532	CG1 VAL D 289	45.885 116.238 67.403 1.00 19.29	C
-		CG2 VAL D 289	44.129 117.651 68.609 1.00 20.99	C
		C VAL D 289	45.789 118.159 65.143 1.00 20.90	С
ATOM			45.039 117.683 64.287 1.00 20.95	0
		N PRO D 290	47.091 118.396 64.912 1.00 20.70	N
		CA PRO D 290	47.705 118.003 63.647 1.00 20.51	C

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ATOM	12545	CB PRO D 290	49.170 118.393 63.854 1.00 20.50	C
ATOM	12548	CG PRO D 290	49.114 119.490 64.867 1.00 20.21	С
ATOM	12551	CD PRO D 290	48.068 119.071 65.795 1.00 20.24	С
ATOM	12554	C PRO D 290	47.537 116.501 63.361 1.00 21.20	C
ATOM	12555	O PRO D 290	47.848 115.674 64.219 1.00 20.62	Ο
ATOM	12556	N GLY D 291	47.026 116.169 62.171 1.00 22.22	N
ATOM	12558	CA GLY D 291	46.806 114.792 61.762 1.00 22.96	C
ATOM	12561	C GLY D 291	45.325 114.489 61.588 1.00 23.80	C
ATOM	12562	O GLY D 291	44.927 113.845 60.601 1.00 24.45	О
ATOM	12563	N PHE D 292	44.518 114.949 62.553 1.00 23.74	N
ATOM	12565	CA PHE D 292	43.083 114.699 62.583 1.00 23.53	C
ATOM	12567	CB PHE D 292	42.446 115.495 63.727 1.00 23.16	С
ATOM	12570	CG PHE D 292	41.103 115.012 64.091 1.00 21.53	С
ATOM	12571	CD1 PHE D 292	40.955 113.843 64.802 1.00 22.59	C
ATOM	12573	CE1 PHE D 292	39.709 113.365 65.109 1.00 23.64	С
ATOM	12575	CZ PHE D 292	38.581 114.057 64.686 1.00 22.30	С
ATOM	12577	CE2 PHE D 292	38.734 115.203 63.973 1.00 21.89	С
ATOM	12579	CD2 PHE D 292	39.989 115.678 63.677 1.00 21.09	C
ATOM	12581	C PHE D 292	42.343 114.989 61.252 1.00 24.42	С
ATOM	12582	O PHE D 292	41.609 114.121 60.744 1.00 23.56	Ο
ATOM	12583	N LEU D 293	42.536 116.193 60.697 1.00 25.57	N
ATOM	12585	CA LEU D 293	41.798 116.611 59.489 1.00 26.53	C
ATOM	12587	CB LEU D 293	41.717 118.146 59.358 1.00 26.83	C
ATOM	12590	CG LEU D 293	41.021 118.951 60.490 1.00 28.44	С
ATOM	12592	CD1 LEU D 293	41.363 120.447 60.419 1.00 29.31	C
		CD2 LEU D 293	39.489 118.773 60.545 1.00 28.73	C
		C LEU D 293	42.361 115.993 58.202 1.00 26.86	С
ATOM	12601	O LEU D 293	41.711 116.044 57.165 1.00 26.99	Ο
		N GLN D 294	43.553 115.404 58.277 1.00 27.57	N
			44.088 114.555 57.195 1.00 28.18	С
		CB GLN D 294	45.650 114.549 57.221 1.00 29.08	С
ATOM	12609	CG GLN D 294	46.375 113.374 57.995 1.00 29.83	С
ATOM	12612	CD GLN D 294	47.882 113.628 58.254 1.00 31.21	С
		OE1 GLN D 294	48.653 112.690 58.434 1.00 35.09	O
		NE2 GLN D 294	48.277 114.878 58.300 1.00 31.40	N
		C GLN D 294	43.520 113.100 57.194 1.00 27.84	С
		O GLN D 294	43.881 112.296 56.330 1.00 27.73	O
		N LEU D 295	42.649 112.773 58.161 1.00 27.04	N
		CA LEU D 295	41.918 111.509 58.187 1.00 25.66	С
		CB LEU D 295	41.611 111.090 59.633 1.00 25.33	C
		CG LEU D 295	42.789 110.608 60.478 1.00 23.90	C
		CD1 LEU D 295	42.330 110.230 61.882 1.00 22.76	C
		CD2 LEU D 295	43.509 109.447 59.805 1.00 22.45	C
		C LEU D 295	40.630 111.676 57.409 1.00 25.12	c
		O LEU D 295	40.140 112.781 57.283 1.00 24.36	Ö
		N GLY D 296	40.078 110.571 56.912 1.00 24.98	N
		CA GLY D 296	38.788 110.591 56.251 1.00 25.23	C
		C GLY D 296	37.695 111.063 57.188 1.00 25.63	C
	-			-

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ATOM 12644 O GLY D 296 37.828 110.926 58.383 1.00 26.10 0 36.606 111.620 56.665 1.00 26.28 ATOM 12645 N ARG D 297 N ATOM 12647 CA ARG D 297 35.548 112.157 57.527 1.00 26.54 C ATOM 12649 CB ARG D 297 34.434 112.786 56.700 1.00 26.90  $\mathbf{C}$  $\mathbf{C}$ 33.485 113.685 57.498 1.00 29.64 ATOM 12652 CG ARG D 297 ATOM 12655 CD ARG D 297 32.206 114.073 56.720 1.00 33.39 C 31.164 114.678 57.568 1.00 36.49 N ATOM 12658 NE ARG D 297 30.052 114.061 58.027 1.00 39.03 ATOM 12660 CZ ARG D 297  $\mathbf{C}$ 29.786 112.775 57.750 1.00 39.92 N ATOM 12661 NH1 ARG D 297 29.191 114.745 58.787 1.00 39.05 N ATOM 12664 NH2 ARG D 297 34.972 111.079 58.443 1.00 26.10 ATOM 12667 C ARG D 297 C 34.630 111.363 59.595 1.00 25.41 0 ATOM 12668 O ARG D 297 ATOM 12669 N GLU D 298 34.880 109.853 57.916 1.00 25.79 N 34.324 108.709 58.638 1.00 25.76 C ATOM 12671 CA GLU D 298 C 34.363 107.457 57.760 1.00 26.37 ATOM 12673 CB GLU D 298 ATOM 12676 CG GLU D 298 33.086 106.639 57.739 1.00 28.91 C C 32.357 106.757 56.418 1.00 32.85 ATOM 12679 CD GLU D 298 31.774 107.844 56.148 1.00 35.69 ATOM 12680 OE1 GLU D 298 0 ATOM 12681 OE2 GLU D 298 32.379 105.767 55.648 1.00 35.42 0 ATOM 12682 C GLU D 298 35.097 108.436 59.925 1.00 24.94 C 34.507 108.340 61.022 1.00 24.94 0 ATOM 12683 O GLU D 298 36.415 108.311 59.770 1.00 23.72 ATOM 12684 N ASP D 299 37.321 108.057 60.884 1.00 22.63 ATOM 12686 CA ASP D 299 C C ATOM 12688 CB ASP D 299 38.712 107.756 60.374 1.00 22.35 C ATOM 12691 CG ASP D 299 38.857 106.328 59.985 1.00 23.42 37.825 105.618 60.008 1.00 22.19 0 ATOM 12692 OD1 ASP D 299 39.950 105.818 59.649 1.00 27.24 0 ATOM 12693 OD2 ASP D 299 ATOM 12694 C ASP D 299 37.385 109.175 61.883 1.00 21.89 37.517 108.919 63.058 1.00 21.49 0 ATOM 12695 O ASP D 299 N 37.307 110.415 61.421 1.00 21.38 ATOM 12696 N GLN D 300 37.217 111.550 62.326 1.00 20.93 C ATOM 12698 CA GLN D 300 37.044 112.846 61.538 1.00 20.99 C ATOM 12700 CB GLN D 300 C ATOM 12703 CG GLN D 300 38.286 113.275 60.758 1.00 21.23  $\mathbf{C}$ ATOM 12706 CD GLN D 300 38.076 114.518 59.908 1.00 18.90 37.373 115.450 60.302 1.00 18.65 0 ATOM 12707 OE1 GLN D 300 38.696 114.529 58.747 1.00 17.75 N ATOM 12708 NE2 GLN D 300 36.017 111.354 63.232 1.00 20.70 C ATOM 12711 C GLN D 300 ATOM 12712 O GLN D 300 36.083 111.596 64.438 1.00 20.60 0 34.911 110.922 62.629 1.00 20.41 ATOM 12713 N ILE D 301 N 33.645 110.807 63.342 1.00 20.32 ATOM 12715 CA ILE D 301 C 32.430 110.539 62.342 1.00 20.75 C ATOM 12717 CB ILE D 301 31.698 111.842 62.000 1.00 21.61  $\mathbf{C}$ ATOM 12719 CG1 ILE D 301  $\mathbf{C}$ ATOM 12722 CD1 ILE D 301 31.071 111.821 60.585 1.00 23.12 C ATOM 12726 CG2 ILE D 301 31.376 109.561 62.898 1.00 21.24 ATOM 12730 C ILE D 301 33.773 109.734 64.396 1.00 19.30 C 33.405 109.956 65.535 1.00 18.56 ATOM 12731 O ILE D 301 0 ATOM 12732 N ALA D 302 34.308 108.591 63.979 1.00 18.64 N ATOM 12734 CA ALA D 302 34.464 107.424 64.811 1.00 18.49 C

A TO 3.4	12726	CB ALA D 302	34.989 106.285 63.975 1.00 18.24	C
		C ALA D 302		C
			35.392 107.675 66.004 1.00 18.94 35.089 107.258 67.112 1.00 19.46	
		O ALA D 302		0
		N LEU D 303	36.514 108.359 65.779 1.00 19.14	N
		CA LEU D 303	37.488 108.638 66.827 1.00 19.01	C
		CB LEU D 303	38.767 109.255 66.259 1.00 18.59	C
		CG LEU D 303	39.571 108.400 65.304 1.00 18.48	C
		CD1 LEU D 303	40.776 109.135 64.828 1.00 18.54	C
			39.963 107.096 65.946 1.00 19.04	C
		C LEU D 303	36.926 109.599 67.842 1.00 19.75	C
		O LEU D 303		O
		N LEU D 304	36.162 110.583 67.396 1.00 20.37	N
		CA LEU D 304	35.606 111.578 68.302 1.00 21.24	С
		CB LEU D 304	35.090 112.794 67.533 1.00 21.60	C
ATOM	12768	CG LEU D 304	36.047 113.963 67.403 1.00 22.91	С
ATOM	12770	CD1 LEU D 304	35.301 115.085 66.740 1.00 23.49	С
ATOM	12774	CD2 LEU D 304	36.599 114.368 68.770 1.00 23.75	C
ATOM	12778	C LEU D 304	34.450 111.005 69.082 1.00 21.38	C
ATOM	12779	O LEU D 304	34.229 111.379 70.230 1.00 21.95	Ο
ATOM	12780	N LYS D 305	33.690 110.124 68.449 1.00 21.59	N
ATOM	12782	CA LYS D 305	32.502 109.564 69.064 1.00 22.10	С
		CB LYS D 305	31.758 108.677 68.078 1.00 22.53	С
		CG LYS D 305	30.328 108.350 68.468 1.00 24.98	С
		CD LYS D 305	29.521 107.812 67.266 1.00 27.56	С
		CE LYS D 305	28.563 106.702 67.654 1.00 28.13	С
		NZ LYS D 305	27.205 107.285 67.902 1.00 30.85	N
		C LYS D 305	32.914 108.768 70.288 1.00 21.70	С
		O LYS D 305	32.287 108.868 71.324 1.00 22.09	O
		N ALA D 306	34.001 108.022 70.160 1.00 21.18	N
		CA ALA D 306	34.567 107.235 71.239 1.00 20.90	C
		CB ALA D 306	35.573 106.256 70.663 1.00 20.80	Č
		C ALA D 306	35.260 108.088 72.286 1.00 21.39	C
		O ALA D 306	35.157 107.824 73.476 1.00 21.09	ŏ
		N SER D 307		N
		CA SER D 307	36.969 109.802 72.650 1.00 22.50	C
		CB SER D 307	37.996 110.563 71.787 1.00 22.64	Ċ
		OG SER D 307	39.257 109.880 71.824 1.00 25.98	Ö
		C SER D 307	36.331 110.791 73.585 1.00 22.17	c
			36.852 111.052 74.661 1.00 22.21	Ö
		O SER D 307	35.206 111.340 73.152 1.00 21.79	N
		N THR D 308	34,552 112,457 73.819 1.00 21.79	
		CA THR D 308		C
		CB THR D 308	33.269 112.742 73.087 1.00 21.46	C
		OG1 THR D 308	33.608 113.275 71.802 1.00 21.01	0
		CG2 THR D 308	32.442 113.843 73.775 1.00 21.81	C
		C THR D 308	34.288 112.248 75.304 1.00 21.10	C
		O THR D 308	34.700 113.058 76.126 1.00 21.23	0
			33.623 111.162 75.669 1.00 20.75	N
ATUM	12839	CA ILE D 309	33.423 110.900 77.087 1.00 20.29	С

				32)	
ATOM	12841	CB	ILE D 309	32.512 109.705 77.301 1.00 20.15	C
ATOM	12843	CG	1 ILE D 309	32.088 109.627 78.769 1.00 20.44	C
ATOM	12846	CD	1 ILE D 309	31.347 110.861 79.247 1.00 20.84	C
ATOM	12850	CG	2 ILE D 309	33.208 108.413 76.873 1.00 20.07	C
ATOM	12854	C	ILE D 309	34.758 110.692 77.837 1.00 20.07	С
ATOM	12855	O	ILE D 309	34.842 111.020 79.042 1.00 20.47	O
ATOM	12856	N	GLU D 310	35.770 110.128 77.157 1.00 18.95	N
ATOM	12858	CA	GLU D 310	37.076 109.860 77.804 1.00 18.40	C
ATOM	12860	CB	GLU D 310	37.968 108.893 76.977 1.00 17.89	С
ATOM	12863	CG	GLU D 310	37.203 107.662 76.506 1.00 17.62	C
ATOM	12866	CD	GLU D 310	38.029 106.432 76.138 1.00 16.74	C
ATOM	12867	OE	1 GLU D 310		О
ATOM	12868	OE	2 GLU D 310	37.390 105.427 75.831 1.00 14.78	О
			GLU D 310		C
ATOM	12870	O	GLU D 310	38.389 111.363 79.139 1.00 17.21	О
ATOM	12871	N	ILE D 311	37.648 112.133 77.188 1.00 17.97	N
				38.274 113.445 77.287 1.00 18.00	C
ATOM	12875	CB	ILE D 311	38.215 114.184 75.891 1.00 17.94	C
ATOM	12877	CC	31 ILE D 311	39.246 113.548 74.950 1.00 18.50	C
ATOM	12880	CE	1 ILE D 311	39.166 114.008 73.462 1.00 18.54	C
ATOM	12884	CC	32 ILE D 311	38.456 115.690 76.033 1.00 16.96	C
ATOM	12888	C	ILE D 311	37.601 114.257 78.390 1.00 17.89	C
ATOM	12889	O	ILE D 311	38.291 114.914 79.170 1.00 17.48	O
ATOM	12890	N	MET D 312	36.266 114.203 78.434 1.00 18.03	N
ATOM	12892	CA	MET D 312	35.460 114.829 79.497 1.00 18.46	С
ATOM	12894	CE	MET D 312	33.963 114.537 79.279 1.00 18.58	C
ATOM	12897	CC	MET D 312	33.336 115.223 78.107 1.00 19.01	С
ATOM	12900	SD	MET D 312	31.760 114.482 77.692 1.00 21.45	S
ATOM	12901	CE	MET D 312	30.718 115.688 78.243 1.00 23.95	C
ATOM	12905	C	MET D 312		C
ATOM	12906	0	MET D 312		O
			LEU D 313		N
			LEU D 313	36.513 112.322 82.098 1.00 19.20	С
			LEU D 313	36.602 110.821 81.795 1.00 19.54	C
			3 LEU D 313	35.268 110.100 81.922 1.00 19.89	С
ATOM	12916	CE	01 LEU D 313	35.355 108.731 81.246 1.00 21.07	С
			2 LEU D 313	34.876 109.976 83.398 1.00 19.05	С
ATOM	12924	C	LEU D 313	37.849 112.830 82.567 1.00 19.34	С
			LEU D 313	38.080 113.038 83.746 1.00 19.32	О
ATOM	12926	N	LEU D 314	38.737 112.989 81.608 1.00 19.77	N
ATOM	12928	CA	LEU D 314	40.102 113.411 81.842 1.00 20.55	C
ATOM	12930	CE	3 LEU D 314	40.856 113.304 80.522 1.00 20.62	С
ATOM	12933	CC	3 LEU D 314	42.241 112.700 80.428 1.00 21.87	C
ATOM	12935	CI	01 LEU D 314	42.504 111.631 81.404 1.00 22.40	С
ATOM	12939	CI	D2 LEU D 314		С
ATOM	12943	C	LEU D 314	40.117 114.859 82.333 1.00 20.82	C
ATOM	12944	0	LEU D 314	40.898 115.226 83.202 1.00 20.41	Ο
ATOM	12945	N	GLU D 315	39.225 115.658 81.740 1.00 21.66	N

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39.062 117.085 82.029 1.00 21.96 ATOM 12947 CA GLU D 315 C ATOM 12949 CB GLU D 315 38.301 117.787 80.892 1.00 22.44 C C ATOM 12952 CG GLU D 315 39.159 118.050 79.651 1.00 25.65 ATOM 12955 CD GLU D 315 40.257 119.085 79.890 1.00 29.69 C 39.934 120.148 80.471 1.00 32.41 0 ATOM 12956 OE1 GLU D 315 ATOM 12957 OE2 GLU D 315 41.434 118.839 79.511 1.00 30.62 0 ATOM 12958 C GLU D 315 38.318 117.271 83.338 1.00 21.05 C ATOM 12959 O GLU D 315 38.530 118.266 84.046 1.00 21.15 0 ATOM 12960 N THR D 316 37.451 116.312 83.651 1.00 19.95 N 36.697 116.323 84.895 1.00 19.30  $\mathbf{C}$ ATOM 12962 CA THR D 316 35.616 115.211 84.871 1.00 18.81 C ATOM 12964 CB THR D 316 34.491 115.641 84.096 1.00 16.74 0 ATOM 12966 OG1 THR D 316 ATOM 12968 CG2 THR D 316 35.022 114.957 86.258 1.00 18.57 C ATOM 12972 C THR D 316 37.696 116.153 86.052 1.00 19.52 C ATOM 12973 O THR D 316 37.687 116.924 87.042 1.00 19.17 0 ATOM 12974 N ALA D 317 38.578 115.166 85.872 1.00 19.45 N 39.610 114.797 86.842 1.00 19.58 ATOM 12976 CA ALA D 317 C 40.431 113.613 86.299 1.00 19.72 ATOM 12978 CB ALA D 317 C ATOM 12982 C ALA D 317 40.533 115.956 87.133 1.00 19.30 C 40.906 116.205 88.274 1.00 18.64 O ATOM 12983 O ALA D 317 ATOM 12984 N ARG D 318 40.886 116.633 86.047 1.00 19.70 N ATOM 12986 CA ARG D 318 41.825 117.748 86.005 1.00 20.05 C 41.897 118.209 84.552 1.00 20.24 ATOM 12988 CB ARG D 318 C 42.857 119.365 84.244 1.00 22.52 C ATOM 12991 CG ARG D 318 C ATOM 12994 CD ARG D 318 42.898 119.694 82.750 1.00 24.07 ATOM 12997 NE ARG D 318 44.023 120.541 82.434 1.00 25.37 N ATOM 12999 CZ ARG D 318 44.650 120.582 81.273 1.00 27.69  $\mathbf{C}$ ATOM 13000 NH1 ARG D 318 44.284 119.804 80.261 1.00 29.30 N ATOM 13003 NH2 ARG D 318 45.658 121.431 81.123 1.00 28.26 N 41.422 118.921 86.898 1.00 19.78 ATOM 13006 C ARG D 318 C ATOM 13007 O ARG D 318 42.277 119.707 87.320 1.00 18.62 0 ATOM 13008 N ARG D 319. 40.110 118.998 87.152 1.00 20.23 N ATOM 13010 CA ARG D 319 39.430 120.077 87.865 1.00 20.95 C ATOM 13012 CB ARG D 319  $\mathbf{C}$ 38.140 120.431 87.122 1.00 21.55 ATOM 13015 CG ARG D 319 38.327 120.791 85.656 1.00 24.18 C ATOM 13018 CD ARG D 319 38.481 122.302 85.384 1.00 28.57 C ATOM 13021 NE ARG D 319 38.068 122.655 84.029 1.00 31.34 N ATOM 13023 CZ ARG D 319 38.648 122.190 82.929 1.00 34.77 C ATOM 13024 NH1 ARG D 319 39.675 121.348 82.992 1.00 36.10 N 38.193 122.558 81.745 1.00 37.68 ATOM 13027 NH2 ARG D 319 N ATOM 13030 C ARG D 319 39.035 119.718 89.295 1.00 20.60 C ATOM 13031 O ARG D 319 38.483 120.551 90.020 1.00 20.22 0 ATOM 13032 N TYR D 320 39.317 118.479 89.682 1.00 20.75 N ATOM 13034 CA TYR D 320 38.916 117.943 90.971 1.00 20.72 C C ATOM 13036 CB TYR D 320 39.061 116.422 90.978 1.00 20.70 ATOM 13039 CG TYR D 320 38.692 115.770 92.292 1.00 20.35 C ATOM 13040 CD1 TYR D 320 37.376 115.469 92.591 1.00 19.94 C ATOM 13042 CE1 TYR D 320 37.032 114.857 93.781 1.00 19.67

ATOM	13044	CZ TYR D 320	38.007 114.552 94.694 1.00 19.88	С
		OH TYR D 320	37.652 113.950 95.881 1.00 20.01	0
		<b>CE2 TYR D 320</b>	39.324 114.845 94.422 1.00 19.88	C
		CD2 TYR D 320		Č
		C TYR D 320	39.741 118.546 92.101 1.00 20.94	c
		O TYR D 320	40.968 118.564 92.056 1.00 20.78	Ö
		N ASN D 321	39.022 119.013 93.111 1.00 21.28	N
		CA ASN D 321	39.555 119.586 94.329 1.00 21.69	C
		CB ASN D 321	38.626 120.746 94.733 1.00 21.83	C
		CG ASN D 321		C
			39.303 121.809 95.576 1.00 20.95	
		OD1 ASN D 321	39.061 122.995 95.390 1.00 19.43	0
		ND2 ASN D 321		N
		C ASN D 321	39.542 118.458 95.387 1.00 22.23	C
			38.468 117.931 95.726 1.00 21.54	O
		N HIS D 322	40.724 118.085 95.891 1.00 22.96	N
		CA HIS D 322	40.818 117.021 96.900 1.00 23.77	C
		CB HIS D 322	42.149 116.238 96.795 1.00 24.07	C
		CG HIS D 322	42.101 114.884 97.456 1.00 25.78	С
		ND1 HIS D 322		N
		CE1 HIS D 322	41.309 112.878 97.935 1.00 26.95	C
		NE2 HIS D 322	42.392 113.070 98.667 1.00 27.14	N
ATOM	13081	CD2 HIS D 322	42.902 114.319 98.393 1.00 26.71	C
ATOM	13083	C HIS D 322	40.538 117.501 98.354 1.00 23.63	C
ATOM	13084	O HIS D 322	40.309 116.683 99.256 1.00 23.64	O
ATOM	13085	N GLU D 323	40.532 118.817 98.561 1.00 23.40	N
ATOM	13087	CA GLU D 323	40.110 119.408 99.826 1.00 23.21	C
ATOM	13089	CB GLU D 323	40.597 120.851 99.929 1.00 23.45	С
		CG GLU D 323	42.102 121.033 99.857 1.00 23.68	С
		CD GLU D 323		С
				0
		OE2 GLU D 323	43.748 119.744 100.914 1.00 24.55	Ō
			38.590 119.418 99.949 1.00 22.98	C
			38.043 119.013 100.970 1.00 22.89	o
		N THR D 324		N
		CA THR D 324	36.462 120.107 98.930 1.00 22.50	Ĉ
		CB THR D 324	36.072 121.409 98.159 1.00 22.59	č
		OG1 THR D 324	36.456 121.322 96.782 1.00 22.02	o
		CG2 THR D 324	36.863 122.623 98.664 1.00 22.66	Č
		C THR D 324	35.689 118.910 98.372 1.00 22.31	c
		O THR D 324	34.472 118.857 98.498 1.00 21.79	Ö
				N
		N GLU D 325	36.414 117.955 97.778 1.00 22.45	
		CA GLUD 325	35.851 116.735 97.156 1.00 22.39	C
		CB GLUD 325	35.239 115.774 98.220 1.00 22.70	C
		CG GLUD 325	36.033 115.582 99.525 1.00 23.36	C
		CD GLUD 325	37.010 114.396 99.538 1.00 24.78	C
		OE1 GLU D 325	37.499 114.040 100.635 1.00 25.95	0
		OE2 GLU D 325	37.322 113.820 98.477 1.00 26.11	0
ATOM	13127	C GLU D 325	34.834 117.048 96.035 1.00 21.81	C

ATOM	13128	O GLU D 325	33.797 116.385 95.914 1.00 21.16	O
ATOM	13129	N CYS D 326	35.157 118.052 95.215 1.00 21.65	N
ATOM	13131	CA CYS D 326	34.253 118.552 94.164 1.00 21.65	С
ATOM	13133	CB CYS D 326	33.624 119.877 94.582 1.00 21.65	С
ATOM	13136	SG CYS D 326	32.795 119.862 96.151 1.00 20.33	S
ATOM	13137	C CYS D 326	34.934 118.851 92.850 1.00 21.87	С
		O CYS D 326	36.047 119.355 92.836 1.00 21.29	0
		N ILE D 327	•	N
			34.701 119.019 90.434 1.00 23.54	C
			34.214 118.084 89.352 1.00 23.59	Ċ
			34.606 116.645 89.673 1.00 24.93	C
			33.411 115.715 89.709 1.00 26.49	Č
		CG2 ILE D 327		Č
		C ILE D 327	34.225 120.405 90.114 1.00 24.05	C
		O ILE D 327	33.115 120.761 90.420 1.00 23.55	ŏ
		N THR D 328		N
			34.907 122.584 89.221 1.00 26.70	Ĉ
	•		36.032 123.326 89.998 1.00 26.94	Č
		OG1 THR D 328		o
		CG2 THR D 328		C
		C THR D 328	34.969 122.925 87.724 1.00 27.26	C
		O THR D 328		Ö
		N ALA D 329	33.905 122.575 86.992 1.00 27.70	N
		CA ALA D 329	33.818 122.753 85.532 1.00 27.76	C
		CB ALA D 329	32,506 122.163 84.995 1.00 27.77	C
		C ALA D 329	33.937 124.212 85.116 1.00 27.79	C
				0
		O ALA D 329	30.476 127.084 90.472 1.00 24.39	N
		N PHE D 333	30.201 125.947 89.594 1.00 24.59	
		CA PHE D 333		C C
		CB PHE D 333	30.414 126.341 88.126 1.00 24.62	C
		CG PHE D 333		
			28.349 126.745 86.729 1.00 26.75	C
		CE1 PHE D 333	27.348 127.573 86.234 1.00 27.17	C
		CZ PHE D 333	27.320 128.923 86.594 1.00 27.66	C
		CE2 PHE D 333	28.291 129.435 87.450 1.00 27.27	C
		CD2 PHE D 333	29.289 128.603 87.940 1.00 27.23	C
		C PHE D 333	31.031 124.711 89.961 1.00 24.03	C
		O PHE D 333	31.736 124.156 89.119 1.00 23.95	O
		N THR D 334	30.938 124.296 91.227 1.00 23.60	N
		CA THR D 334	31.488 123.015 91.690 1.00 23.28	C
		CB THR D 334	32.364 123.166 92.979 1.00 23.36	C
		OG1 THR D 334		0
		CG2 THR D 334		C
		C THR D 334	30.372 121.998 91.953 1.00 22.94	C
ATOM			29.252 122.372 92.288 1.00 23.01	O
		N TYR D 335	30.699 120.714 91.816 1.00 22.58	N
		CA TYR D 335	29.741 119.624 91.993 1.00 22.37	C
ATOM	13220	CB TYR D 335	29.286 119.078 90.631 1.00 22.28	C

ATOM	13223	CG TYR D 335	28.726 120.162 89.738 1.00 22.32	С
			29.543 120.858 88.865 1.00 22.00	C
		<b>CE1 TYR D 335</b>	29.034 121.869 88.062 1.00 21.64	С
		CZ TYR D 335	27.708 122.196 88.137 1.00 21.25	С
		OH TYR D 335	27.223 123.193 87.340 1.00 21.55	0
		CE2 TYR D 335	26.876 121.533 89.000 1.00 21.54	C
		CD2 TYR D 335	27.386 120.523 89.799 1.00 22.31	C
		C TYR D 335	30.379 118.518 92.818 1.00 22.12	C
		O TYR D 335	31.382 117.931 92.404 1.00 22.18	Ö
		N SER D 336	29.815 118.262 93.996 1.00 21.64	Ň
		CA SER D 336	30.249 117.165 94.851 1.00 21.45	C
		CB SER D 336	29.778 117.429 96.261 1.00 21.14	Č
		OG SER D 336	28.370 117.450 96.271 1.00 20.49	ŏ
		C SER D 336	29.646 115.839 94.375 1.00 21.75	C
		O SER D 336	28.911 115.811 93.388 1.00 21.91	ŏ
		N LYS D 337	29.945 114.743 95.080 1.00 21.87	N
		CA LYS D 337	29.284 113.451 94.832 1.00 21.71	C
		CB LYS D 337	29.759 112.396 95.827 1.00 21.69	C
			30.993 111.632 95.402 1.00 22.07	C
		CG LYS D 337	31.741 111.100 96.629 1.00 22.88	C
		CD LYS D 337	32.805 110.094 96.242 1.00 23.03	C
		CE LYS D 337		N
		NZ LYS D 337	32.220 108.758 95.963 1.00 23.33	
		C LYS D 337	27.766 113.581 94.944 1.00 21.72	C
		O LYS D 337	27.023 113.113 94.082 1.00 21.42	0 N
		N ASP D 338	27.322 114.228 96.021 1.00 21.83	N
		CA ASP D 338	25.900 114.419 96.288 1.00 21.83	C
		CB ASP D 338	25.697 115.180 97.604 1.00 21.84	C
		CG ASP D 338	24.259 115.141 98.086 1.00 21.87	C
		OD1 ASP D 338	23.753 116.180 98.580 1.00 21.66	0
		OD2 ASP D 338	23.564 114.107 98.005 1.00 22.04	0
		C ASP D 338	25.184 115.146 95.152 1.00 21.77	C
		O ASP D 338	24.025 114.848 94.860 1.00 21.70	O
		N ASP D 339	25.876 116.094 94.525 1.00 21.74	N
		CA ASP D 339	25.298 116.899 93.449 1.00 21.88	С
ATOM	13286	CB ASP D 339	26.237 118.038 93.050 1.00 22.05	С
ATOM	13289	CG ASP D 339	26.329 119.120 94.091 1.00 21.96	С
<b>ATOM</b>	13290	OD1 ASP D 339	25.299 119.470 94.707 1.00 22.87	О
ATOM	13291	OD2 ASP D 339	27.405 119.692 94.339 1.00 22.06	О
ATOM	13292	C ASP D 339	25.003 116.080 92.203 1.00 21.86	C
ATOM	13293	O ASP D 339	24.007 116.314 91.526 1.00 21.72	O
ATOM	13294	N PHE D 340	25.888 115.146 91.879 1.00 21.93	N
<b>ATOM</b>	13296	CA PHE D 340	25.628 114.243 90.774 1.00 21.96	С
ATOM	13298	CB PHE D 340	26.787 113.275 90.563 1.00 21.67	C
ATOM	13301	CG PHE D 340	27.923 113.834 89.737 1.00 20.36	С
ATOM	13302	CD1 PHE D 340	28.533 115.031 90.078 1.00 18.74	С
ATOM	13304	CE1 PHE D 340	29.580 115.525 89.340 1.00 18.16	С
ATOM	13306	CZ PHE D 340	30.043 114.830 88.240 1.00 18.95	С
		CE2 PHE D 340	29.459 113.620 87.883 1.00 18.94	C

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A TOM	13310	CD2 PHE D 340	28.406 113.130 88.633 1.00 19.62	С
		C PHE D 340	24.360 113.475 91.114 1.00 22.63	c
		O PHE D 340	23.404 113.480 90.348 1.00 22.45	Ö
_		N HIS D 341	24.350 112.860 92.296 1.00 23.66	N
		CA HIS D 341		C
				C
		CB HIS D 341		C
		CG HIS D 341		N
			22.165 109.253 93.957 1.00 25.23	
			21.201 108.657 94.638 1.00 25.18	C
			20.927 109.390 95.704 1.00 24.35	N
			21.743 110.494 95.708 1.00 24.37	C
				C
		O HIS D 341		O
		N ARG D 342		N
			20.712 114.917 93.156 1.00 26.51	С
ATOM	13336	CB ARG D 342		С
		CG ARG D 342		С
ATOM	13342	CD ARG D 342	21.546 116.453 96.376 1.00 28.04	С
			21.296 117.526 97.343 1.00 27.92	N
ATOM	13347	CZ ARG D 342	21.949 118.692 97.396 1.00 28.32	C
ATOM	13348	NH1 ARG D 342	22.929 118.984 96.539 1.00 27.50	N
ATOM	13351	<b>NH2 ARG D 342</b>	21.612 119.583 98.328 1.00 28.66	N
ATOM	13354	C ARG D 342	20.148 115.165 91.737 1.00 26.96	С
		O ARG D 342		О
		N ALA D 343		N
			20.621 115.056 89.297 1.00 28.17	С
			21.841 115.420 88.420 1.00 28.01	С
		C ALA D 343		С
		O ALA D 343		O
		N GLY D 344		N
		CA GLY D 344	19.109 111.539 89.319 1.00 29.76	C
		C GLY D 344		C
			19.692 109.326 88.648 1.00 30.33	O,
		N LEU D 345		N
		CA LEU D 345	22.436 109.761 88.619 1.00 30.99	Ĉ
		CB LEU D 345	23.785 110.482 88.392 1.00 31.13	Č
		CG LEU D 345	23.869 111.635 87.372 1.00 31.54	Č
		CD1 LEU D 345	25.317 111.914 87.000 1.00 31.62	C
		CD2 LEU D 345	23.052 111.376 86.110 1.00 32.03	Č
		C LEU D 345	22.655 108.545 89.541 1.00 31.08	c
		O LEU D 345	22.474 108.620 90.768 1.00 31.00	0
			23.027 107.431 88.903 1.00 31.06	N
		N GLN D 346		
		CA GLN D 346	23.442 106.191 89.556 1.00 31.00	C
		CB GLN D 346	23.721 105.111 88.503 1.00 31.10	C
		CG GLN D 346	22.582 104.170 88.205 1.00 31.85	C
		CD GLN D 346	23.015 102.995 87.321 1.00 32.92	C
		OE1 GLN D 346	22.733 101.826 87.639 1.00 33.78	0
ATOM	13404	NE2 GLN D 346	23.700 103.301 86.218 1.00 31.83	N

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ATOM	13407	C GLN D 346	24.729 106.377 90.352 1.00 30.85	С
			25.688 106.977 89.859 1.00 30.87	Ö
		N VALD 347		N
		CA VAL D 347		C
ATOM	13413	CB VAL D 347	25.638 104.859 93.673 1.00 30.19	C
ATOM	13415	CG1 VAL D 347	26.909 104.399 94.373 1.00 29.60	C
		CG2 VAL D 347		Č
ATOM	13423	C VAL D 347	27.108 104.988 91.657 1.00 30.12	C
ATOM	13424	O VAL D 347	28.276 105.346 91.783 1.00 30.18	O
ATOM	13425	N GLU D 348	26.721 104.007 90.857 1.00 29.75	N
ATOM	13427	<b>CA GLU D 348</b>	27.602 103.018 90.263 1.00 29.12	С
ATOM	13429	CB GLU D 348	26.732 101.823 89.789 1.00 29.32	С
		CG GLU D 348		С
ATOM	13435	CD GLU D 348	24.687 100.410 90.574 1.00 32.08	С
ATOM	13436	OE1 GLU D 348	25.304 99.410 90.160 1.00 34.02	O
ATOM	13437	OE2 GLU D 348	23.538 100.334 91.079 1.00 32.31	О
ATOM	13438	C GLU D 348	28.429 103.693 89.153 1.00 28.19	C
ATOM	13439	O GLU D 348	29.515 103.227 88.795 1.00 27.93	O
ATOM	13440	N PHE D 349	27.914 104.822 88.656 1.00 27.37	N
ATOM	13442	CA PHE D 349	28.647 105.740 87.768 1.00 26.58	С
ATOM	13444	CB PHE D 349	27.655 106.528 86.883 1.00 26.82	C
ATOM	13447	CG PHE D 349	28.311 107.529 85.946 1.00 27.76	C
ATOM	13448	CD1 PHE D 349	29.220 107.114 84.989 1.00 27.85	C
ATOM	13450	CE1 PHE D 349	29.801 108.004 84.136 1.00 27.86	С
ATOM	13452	CZ PHE D 349	29.497 109.347 84.222 1.00 29.09	С
ATOM	13454	CE2 PHE D 349	28.594 109.792 85.162 1.00 29.42	C
ATOM	13456	CD2 PHE D 349	28.000 108.885 86.019 1.00 29.04	C
ATOM	13458	C PHE D 349	29.508 106.723 88.561 1.00 25.28	C
		O PHE D 349		O
ATOM	13460	N ILE D 350	28.932 107.300 89.613 1.00 24.05	N
ATOM	13462	CA ILE D 350	29.560 108.370 90.381 1.00 23.28	C
ATOM	13464	CB ILE D 350	28.574 108.917 91.482 1.00 23.37	C
ATOM	13466	CG1 ILE D 350	27.430 109.695 90.831 1.00 22.93	C
ATOM	13469	CD1 ILE D 350	26.212 109.857 91.698 1.00 21.90	C
ATOM	13473	CG2 ILE D 350	29.290 109.847 92.496 1.00 22.95	C
ATOM	13477	C ILE D 350	30.878 107.961 91.024 1.00 22.81	C
<b>ATOM</b>	13478	O ILE D 350	31.837 108.721 90.983 1.00 22.60	O
ATOM	13479	N ASN D 351	30.925 106.780 91.629 1.00 22.37	N
ATOM	13481	CA ASN D 351	32.086 106.381 92.427 1.00 22.38	C
ATOM	13483	CB ASN D 351	31.761 105.140 93.290 1.00 22.44	C
ATOM	13486	CG ASN D 351	30.794 105.452 94.453 1.00 22.56	С
ATOM	13487	OD1 ASN D 351	30.899 106.489 95.104 1.00 23.39	Ο
		ND2 ASN D 351	29.861 104.544 94.710 1.00 20.88	N
		C ASN D 351	33.393 106.197 91.599 1.00 22.35	C
		O ASN D 351	34.446 106.707 91.999 1.00 21.94	Ο
		N PRO D 352	33.343 105.466 90.477 1.00 22.41	N
		CA PRO D 352	34.451 105.455 89.507 1.00 22.36	C
ATOM	13496	CB PRO D 352	33.926 104.530 88.402 1.00 22.66	C

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ATOM 13499 CG PRO D 352 32.935 103.627 89.100 1.00 22.54 C ATOM 13502 CD PRO D 352 32.280 104.516 90.085 1.00 22.68 C C ATOM 13505 C PRO D 352 34.860 106.836 88.932 1.00 22.23 ATOM 13506 O PRO D 352 36.065 107.048 88.772 1.00 21.99 0 33.909 107.733 88.638 1.00 21.92 ATOM 13507 N ILE D 353 N ATOM 13509 CA ILE D 353 34.230 109.097 88.202 1.00 22.00  $\mathbf{C}$ ATOM 13511 CB ILE D 353 32.952 110.004 88.087 1.00 22.56 C 32.008 109.566 86.971 1.00 23.46 ATOM 13513 CG1 ILE D 353  $\mathbf{C}$ 32.688 108.789 85.859 1.00 25.94 ATOM 13516 CD1 ILE D 353 C ATOM 13520 CG2 ILE D 353 33.330 111.482 87.823 1.00 23.55  $\mathbf{C}$ 35.164 109.773 89.170 1.00 21.70 ATOM 13524 C ILE D 353 ATOM 13525 O ILE D 353 36.158 110.370 88.769 1.00 21.04 O 34.805 109.703 90.447 1.00 21.95 ATOM 13526 N PHE D 354 N ATOM 13528 CA PHE D 354 35.522 110.409 91.499 1.00 22.21 C 34.597 110.640 92.701 1.00 22.27 ATOM 13530 CB PHE D 354 C ATOM 13533 CG PHE D 354 33.726 111.879 92.571 1.00 23.48 C ATOM 13534 CD1 PHE D 354 32.730 111.953 91.602 1.00 24.85 C ATOM 13536 CE1 PHE D 354 31.932 113.101 91.485 1.00 24.80 C ATOM 13538 CZ PHE D 354 32.136 114.180 92.333 1.00 24.01 C 33.125 114.121 93.288 1.00 23.68 ATOM 13540 CE2 PHE D 354 C 33.917 112.980 93.406 1.00 23.84 C ATOM 13542 CD2 PHE D 354 ATOM 13544 C PHE D 354 36.833 109.703 91.888 1.00 22.27 C ATOM 13545 O PHE D 354 37.853 110.367 92.105 1.00 21.82 O ATOM 13546 N GLU D 355 36.804 108.368 91.947 1.00 22.53 N ATOM 13548 CA GLU D 355 38.011 107.565 92.166 1.00 22.94 C ATOM 13550 CB GLU D 355 37.672 106.059 92.216 1.00 23.60 C ATOM 13553 CG GLU D 355 38.786 105.055 91.844 1.00 26.19 C ATOM 13556 CD GLU D 355 38.343 103.571 91.983 1.00 29.80 C ATOM 13557 OE1 GLU D 355 38.313 102.821 90.953 1.00 30.45 O ATOM 13558 OE2 GLU D 355 38.031 103.146 93.128 1.00 28.86 O 39.017 107.881 91.069 1.00 22.55 ATOM 13559 C GLU D 355 C ATOM 13560 O GLU D 355 40.192 108.075 91.341 1.00 22.51 O ATOM 13561 N PHE D 356 38.547 107.962 89.831 1.00 22.09 N ATOM 13563 CA PHE D 356 39.425 108.252 88.714 1.00 21.85 C C ATOM 13565 CB PHE D 356 38.644 108.236 87.389 1.00 21.68 C ATOM 13568 CG PHE D 356 39.479 108.563 86.161 1.00 20.25 C ATOM 13569 CD1 PHE D 356 40.379 107.643 85.647 1.00 19.48 C ATOM 13571 CE1 PHE D 356 41.125 107.925 84.516 1.00 20.32 C ATOM 13573 CZ PHE D 356 40.976 109.155 83.857 1.00 20.78 C 40.078 110.083 84.353 1.00 20.72 ATOM 13575 CE2 PHE D 356 ATOM 13577 CD2 PHE D 356 39.326 109.775 85.506 1.00 20.37 C ATOM 13579 C PHE D 356 40.068 109.613 88.932 1.00 22.21 C ATOM 13580 O PHE D 356 41.273 109.776 88.746 1.00 22.62 0 ATOM 13581 N SER D 357 39.260 110.581 89.338 1.00 22.26 N ATOM 13583 CA SER D 357 39.698 111.965 89.441 1.00 22.46  $\mathbf{C}$ ATOM 13585 CB SER D 357 38.499 112.854 89.725 1.00 22.55 C ATOM 13588 OG SER D 357 37.497 112.608 88.748 1.00 23.09 0 ATOM 13590 C SER D 357 40.719 112.123 90.540 1.00 22.77 C

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ATOM	13591 O SER D 357	41.752 112.749 90.336 1.00 22.80	Ο
ATOM	13592 N ARG D 358	40.406 111.562 91.705 1.00 23.22	N
ATOM	13594 · CA ARG D 358	41.341 111.441 92.822 1.00 23.69	С
ATOM	13596 CB ARG D 358	40.737 110.539 93.895 1.00 23.84	C
ATOM	13599 CG ARG D 358	39.950 111.209 94.976 1.00 24.37	С
	13602 CD ARG D 358	39.736 110.306 96.194 1.00 26.14	C
	13605 NE ARG D 358	39.529 108.888 95.840 1.00 28.42	N
	13607 CZ ARG D 358	38.343 108.249 95.780 1.00 29.21	С
	13608 NH1 ARG D 358	37.197 108.883 96.034 1.00 29.97	N
	13611 NH2 ARG D 358	38.300 106.958 95.450 1.00 27.86	N
	13614 C ARG D 358	42.691 110.830 92.426 1.00 23.99	C
	13615 O ARG D 358	43.751 111.291 92.843 1.00 24.03	O
	13616 N ALA D 359	42.646 109.761 91.657 1.00 24.70	N
	13618 CA ALA D 359	43.859 109.060 91.284 1.00 25.97	C
	13620 CB ALA D 359	43.518 107.709 90.658 1.00 26.12	С
	13624 C ALA D 359	44.698 109.895 90.320 1.00 26.89	C
	13625 O ALA D 359	45.927 109.899 90.386 1.00 27.13	O
	13626 N MET D 360	44.015 110.595 89.422 1.00 27.85	N
	13628 CA MET D 360	44.656 111.460 88.446 1.00 28.56	С
	13630 CB MET D 360	43.597 112.080 87.546 1.00 28.45	C
	13633 CG MET D 360	44.056 112.313 86.120 1.00 30.11	С
	13636 SD MET D 360	44.377 110.883 85.113 1.00 28.53	S
	13637 CE MET D 360	43.314 109.810 85.823 1.00 34.13	C
	13641 C MET D 360	45,417 112,569 89,155 1,00 29,08	C
	13642 O MET D 360	46.510 112.954 88.745 1.00 29.36	O
ATOM	13643 N ARG D 361	44.824 113.076 90.227 1.00 29.70	N
	13645 CA ARG D 361	45.424 114.136 91.017 1.00 30.30	С
ATOM	13647 CB ARG D 361	44.445 114.577 92.114 1.00 31.01	C
ATOM	13650 CG ARG D 361	44.491 116.079 92.461 1.00 33.71	C
ATOM	13653 CD ARG D 361	44.105 117.057 91.292 1.00 36.07	С
ATOM	13656 NE ARG D 361	44.559 118.427 91.594 1.00 38.11	N
ATOM	13658 CZ ARG D 361	44.012 119.551 91.130 1.00 39.33	C
ATOM	13659 NH1 ARG D 361	42.974 119.521 90.303 1.00 40.49	N
	13662 NH2 ARG D 361	44.517 120.725 91.492 1.00 39.98	N
ATOM	13665 C ARG D 361	46.770 113.722 91.626 1.00 29.88	C
ATOM	13666 O ARG D 361	47.661 114.546 91.763 1.00 30.15	Ο
ATOM	13667 N ARG D 362	46.909 112.446 91.985 1.00 29.65	N
ATOM	13669 CA ARG D 362	48.170 111.878 92.511 1.00 29.18	С
ATOM	13671 CB ARG D 362	47.904 110.507 93.169 1.00 29.35	C
ATOM	13674 CG ARG D 362	47.317 110.584 94.575 1.00 30.19	С
ATOM	13677 CD ARG D 362	47.282 109.249 95.323 1.00 31.60	С
ATOM	13680 NE ARG D 362	45.948 108.648 95.253 1.00 32.65	N
ATOM	13682 CZ ARG D 362	45.557 107.717 94.377 1.00 33.54	C
ATOM	13683 NH1 ARG D 362	46.392 107.224 93.461 1.00 34.22	N
ATOM	13686 NH2 ARG D 362	44.307 107.271 94.412 1.00 33.57	N
ATOM	13689 C ARG D 362	49.276 111.729 91.447 1.00 28.41	C
	13690 O ARG D 362	50.456 111.699 91.775 1.00 28.03	Ο
ATOM	13691 N LEU D 363	48.886 111.593 90.181 1.00 27.94	N

ATOM	13693	CA LEU D 363	49.840 111.656 89.066 1.00 27.63	C
ATOM	13695	CB LEU D 363	49.227 111.128 87.757 1.00 27.65	C
		CG LEU D 363	49.419 109.647 87.420 1.00 29.01	C
		CD1 LEU D 363	48.824 109.324 86.037 1.00 29.75	C
		CD2 LEU D 363	50.874 109.230 87.468 1.00 29.68	C
ATOM	13708	C LEU D 363	50.337 113.091 88.854 1.00 26.67	C
ATOM	13709	O LEU D 363	51.453 113.292 88.377 1.00 26.33	O
		N GLY D 364	49.497 114.069 89.200 1.00 25.70	N
ATOM	13712	CA GLY D 364	49.838 115.471 89.097 1.00 25.00	C
ATOM	13715	C GLY D 364	50.272 115.827 87.698 1.00 24.46	C
ATOM	13716	O GLY D 364	51.367 116.319 87.512 1.00 24.19	О
ATOM	13717	N LEU D 365	49.429 115.554 86.707 1.00 23.82	N
ATOM	13719	CA LEU D 365	49.751 115.950 85.340 1.00 23.63	C
ATOM	13721	CB LEU D 365	48.755 115.348 84.333 1.00 23.97	C
<b>ATOM</b>	13724	CG LEU D 365	48.642 113.823 84.122 1.00 25.37	С
ATOM	13726	CD1 LEU D 365	48.105 113.520 82.731 1.00 26.39	C
ATOM	13730	CD2 LEU D 365	49.932 113.110 84.331 1.00 25.72	C
ATOM	13734	C LEU D 365	49.780 117.485 85.176 1.00 22.74	C
ATOM	13735	O LEU D 365	49.017 118.206 85.825 1.00 22.40	Ο
ATOM	13736	N ASP D 366	50.666 117.964 84.303 1.00 21.78	N
ATOM	13738	CA ASP D 366	50.739 119.384 83.959 1.00 21.15	C
<b>ATOM</b>	13740	CB ASP D 366	52.192 119.895 83.946 1.00 20.82	C
ATOM	13743	CG ASP D 366	53.069 119.161 82.977 1.00 19.90	C
ATOM	13744	OD1 ASP D 366	52.536 118.498 82.080 1.00 19.99	O
ATOM	13745	OD2 ASP D 366	54.311 119.183 83.027 1.00 19.11	O
ATOM	13746	C ASP D 366	50.023 119.609 82.631 1.00 20.87	C
<b>ATOM</b>	13747	O ASP D 366	49.387 118.696 82.105 1.00 20.68	О
ATOM	13748	N ASP D 367	50.093 120.826 82.104 1.00 20.37	N
ATOM	13750	CA ASP D 367	49.335 121.161 80.906 1.00 20.07	C
ATOM	13752	CB ASP D 367	49.370 122.668 80.651 1.00 20.06	C
ATOM	13755	CG ASP D 367	48.587 123.480 81.707 1.00 20.54	C
ATOM	13756	OD1 ASP D 367	47.757 122.922 82.449 1.00 19.80	О
ATOM	13757	OD2 ASP D 367	48.735 124.711 81.855 1.00 22.21	0
ATOM	13758	C ASP D 367	49.815 120.367 79.677 1.00 19.79	C
ATOM			49.009 119.853 78.898 1.00 20.20	Ο
ATOM	13760	N ALA D 368	51.119 120.243 79.521 1.00 19.10	N
ATOM	13762	CA ALA D 368	51.675 119.515 78.404 1.00 18.97	С
ATOM	13764	CB ALA D 368	53.174 119.610 78.454 1.00 19.22	С
ATOM	13768	C ALA D 368	51.244 118.041 78.420 1.00 19.05	С
ATOM	13769	O ALA D 368	50.894 117.458 77.382 1.00 19.42	O
		N GLU D 369	51.263 117.453 79.613 1.00 18.57	N
		CA GLU D 369	51.017 116.038 79.791 1.00 17.67	С
		CB GLU D 369	51.444 115.590 81.187 1.00 17.57	С
		CG GLU D 369	52.954 115.386 81.330 1.00 16.91	С
		CD GLU D 369	53.435 115.301 82.779 1.00 15.04	С
		OE1 GLU D 369	54.568 114.842 83.036 1.00 13.47	О
		OE2 GLU D 369	52.686 115.681 83.685 1.00 15.20	О
		C GLU D 369	49.558 115.761 79.556 1.00 17.63	C

ATOM	13784	O GLU D 369	49.219 114.772 78.920 1.00 18.08	Ο
ATOM	13785	N TYR D 370	48.676 116.628 80.025 1.00 17.66	N
		CA TYR D 370	47.261 116.383 79.794 1.00 18.30	С
ATOM	13789	CB TYR D 370	46.381 117.376 80.517 1.00 18.67	С
		CG TYR D 370	45.808 116.849 81.801 1.00 21.05	С
ATOM	13793	CD1 TYR D 370	46.142 117.446 83.028 1.00 23.25	C
		<b>CE1 TYR D 370</b>		С
ATOM	13797	CZ TYR D 370	44.768 115.914 84.229 1.00 23.91	C
		OH TYR D 370	44.274 115.482 85.440 1.00 23.59	О
ATOM	13800	<b>CE2 TYR D 370</b>	44.409 115.300 83.028 1.00 24.96	С
ATOM	13802	CD2 TYR D 370	44.934 115.783 81.808 1.00 22.06	C
ATOM	13804	C TYR D 370	46.953 116.460 78.319 1.00 18.19	C
		O TYR D 370	46.259 115.603 77.791 1.00 17.82	Ο
ATOM	13806	N ALA D 371	47.491 117.493 77.668 1.00 18.69	N
ATOM	13808	CA ALA D 371	47.179 117.801 76.272 1.00 18.52	С
ATOM	13810	CB ALA D 371	47.795 119.140 75.852 1.00 18.43	C
ATOM	13814	C ALA D 371	47.661 116.674 75.390 1.00 18.35	C
ATOM	13815	O ALA D 371	46.945 116.232 74.487 1.00 18.18	Ο
ATOM	13816	N LEU D 372	48.847 116.170 75.693 1.00 18.25	N
<b>ATOM</b>	13818	CA LEU D 372	49.373 115.028 74.964 1.00 18.98	C
<b>ATOM</b>	13820	CB LEU D 372	50.807 114.739 75.415 1.00 18.86	C
ATOM	13823	CG LEU D 372	51.815 115.736 74.853 1.00 18.92	C
ATOM	13825	CD1 LEU D 372	53.181 115.643 75.548 1.00 18.38	C
ATOM	13829	CD2 LEU D 372	51.934 115.533 73.353 1.00 19.42	С
ATOM	13833	C LEU D 372	48.503 113.760 75.099 1.00 19.72	C
ATOM	13834	O LEU D 372	48.331 113.008 74.154 1.00 19.43	Ο
<b>ATOM</b>	13835	N LEU D 373	47.971 113.530 76.292 1.00 20.97	N
ATOM	13837	CA LEU D 373	47.180 112.329 76.574 1.00 21.51	C
ATOM	13839	CB LEU D 373	46.819 112.225 78.068 1.00 22.02	C
ATOM	13842	CG LEU D 373	47.579 111.219 78.927 1.00 23.19	C
ATOM	13844	CD1 LEU D 373	46.906 111.138 80.293 1.00 24.13	C
ATOM	13848	CD2 LEU D 373	47.641 109.871 78.243 1.00 23.08	C
ATOM	13852	C LEU D 373	45.909 112.368 75.786 1.00 21.12	С
ATOM	13853	O LEU D 373	45.394 111.332 75.360 1.00 20.97	Ο
ATOM	13854	N ILE D 374	45.382 113.560 75.605 1.00 20.62	N
ATOM	13856	CA ILE D 374	44.163 113.654 74.868 1.00 21.18	C
		CB ILE D 374	43.565 115.011 74.986 1.00 21.45	С
		CG1 ILE D 374	43.228 115.327 76.456 1.00 22.09	C
		CD1 ILE D 374	43.129 116.846 76.721 1.00 20.83	С
		CG2 ILE D 374	42.339 115.092 74.048 1.00 21.96	С
		C ILE D 374	44.441 113.354 73.397 1.00 21.37	С
		O ILE D 374	43.705 112.601 72.765 1.00 21.71	О
		N ALA D 375	45.496 113.944 72.845 1.00 20.92	N
		CA ALA D 375	45.829 113.693 71.456 1.00 20.37	C
		CB ALA D 375	47.084 114.443 71.089 1.00 20.56	С
ATOM		C ALA D 375	46.012 112.193 71.261 1.00 20.11	C
ATOM			45.441 111.611 70.362 1.00 19.98	Ο
ATOM	13883	N ILE D 376	46.787 111.582 72.152 1.00 20.02	N

ATOM	13885	CA ILE D 376	47.047 110.161 72.141 1.00 19.93	C
<b>ATOM</b>	13887	CB ILE D 376	47.960 109.772 73.318 1.00 19.91	С
<b>ATOM</b>	13889	CG1 ILE D 376	49.370 110.321 73.087 1.00 19.82	С
<b>ATOM</b>	13892	CD1 ILE D 376	50.422 109.953 74.173 1.00 20.60	С
<b>ATOM</b>	13896	CG2 ILE D 376	48.013 108.222 73.502 1.00 20.45	С
<b>ATOM</b>	13900	C ILE D 376	45.743 109.383 72.172 1.00 20.24	C
<b>ATOM</b>	13901	O ILE D 376	45.592 108.383 71.460 1.00 20.69	Ο
ATOM	13902	N ASN D 377	44.806 109.843 72.988 1.00 20.20	N
<b>ATOM</b>	13904	<b>CA ASN D 377</b>	43.544 109.144 73.193 1.00 20.29	C
			42.818 109.737 74.438 1.00 20.78	C
<b>ATOM</b>	13909	CG ASN D 377	41.464 109.059 74.742 1.00 20.97	C
ATOM	13910	OD1 ASN D 377	40.473 109.329 74.066 1.00 23.08	C
<b>ATOM</b>	13911	ND2 ASN D 377	41.420 108.218 75.769 1.00 16.97	N
<b>ATOM</b>	13914	C ASN D 377	42.690 109.230 71.919 1.00 19.95	C
ATOM	13915	O ASN D 377	41.993 108.278 71.560 1.00 20.27	Ο
<b>ATOM</b>	13916	N ILE D 378	42.738 110.377 71.250 1.00 19.26	N
<b>ATOM</b>	13918	CA ILE D 378	41.968 110.599 70.030 1.00 18.75	C
<b>ATOM</b>	13920	CB ILE D 378	42.153 112.060 69.508 1.00 18.77	С
<b>ATOM</b>	13922	CG1 ILE D 378	41.342 113.031 70.375 1.00 19.09	C
<b>ATOM</b>	13925	CD1 ILE D 378	41.781 114.472 70.341 1.00 18.79	С
<b>ATOM</b>	13929	CG2 ILE D 378	41.724 112.187 68.044 1.00 18.91	С
ATOM	13933	C ILE D 378	42.382 109.578 68.981 1.00 18.32	C
		O ILE D 378		Ο
			43.701 109.422 68.823 1.00 18.34	N
			44.297 108.552 67.805 1.00 18.78	C
		CB PHE D 379	45.643 109.133 67.324 1.00 18.61	C
			45.493 110.415 66.539 1.00 17.77	С
		CD1 PHE D 379		С
		CE1 PHE D 379	46.000 112.731 66.255 1.00 14.16	C
		CZ PHE D 379		C
			44.465 111.679 64.785 1.00 16.73	C
			44.623 110.486 65.473 1.00 16.28	С
		C PHE D 379	44.444 107.085 68.237 1.00 19.48	C
			45.507 106.467 68.067 1.00 18.89	Ο
		N SER D 380	43.355 106.536 68.773 1.00 20.73	Ν
		CA SER D 380	43.291 105.140 69.175 1.00 22.12	C
		CB SER D 380	42.420 104.992 70.402 1.00 22.33	C
		OG SER D 380	42.986 105.676 71.489 1.00 23.06	0
		C SER D 380	42.691 104.347 68.029 1.00 23.01	C
ATOM			41.533 104.555 67.626 1.00 22.89	0
		N ALA D 381	43.486 103.446 67.487 1.00 23.95	N
		CA ALA D 381	43.197 102.911 66.170 1.00 24.86	C
		CB ALA D 381	44.492 102.384 65.538 1.00 24.88	C
		C ALA D 381	42.115 101.817 66.268 1.00 25.60	C
		O ALA D 381	41.365 101.554 65.296 1.00 26.24	0
		N ASP D 382	42.017 101.233 67.467 1.00 25.73	N
		CA ASP D 382	41.087 100.138 67.785 1.00 25.68	C
ATOM	13980	CB ASP D 382	41.688 99.351 68.929 1.00 25.77	С

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ATOM 13983	CG ASP D 382	41.538 100.071 70.217 1.00 26.58	С
ATOM 13984	OD1 ASP D 382	41.974 101.227 70.325 1.00 24.92	О
	OD2 ASP D 382	40.909 99.570 71.157 1.00 33.53	0
	C ASP D 382	39.670 100.569 68.217 1.00 25.05	C
	O ASP D 382	38.994 99.837 68.939 1.00 25.29	O
	N ARG D 383	39.223 101.749 67.802 1.00 24.36	N
	CA ARG D 383		C
	CB ARG D 383		Č
	CG ARG D 383	38.606 104.525 68.764 1.00 22.04	Č
	CD ARG D 383	38.377 104.330 70.242 1.00 21.22	č
	NE ARG D 383	38.854 105.473 71.003 1.00 21.38	N
	CZ ARG D 383	38.749 105.602 72.320 1.00 20.71	C
	NH1 ARG D 383	38.177 104.654 73.044 1.00 18.63	N
		39.223 106.704 72.902 1.00 21.51	N
	NH2 ARG D 383		
	C ARG D 383	36.953 101.493 67.211 1.00 23.94	C
	O ARG D 383		0
	N PRO D 384	35.707 101.357 67.614 1.00 24.37	N
		34.717 100.764 66.727 1.00 24.50	C
	CB PRO D 384	33.404 100.906 67.508 1.00 24.50	C
		33.796 101.100 68.909 1.00 24.66	C
		35.114 101.802 68.887 1.00 24.73	С
	C PRO D 384	34.655 101.576 65.443 1.00 24.46	С
ATOM 14025	O PRO D 384		О
ATOM 14026	N ASN D 385	34.364 100.895 64.336 1.00 24.41	N
ATOM 14028	CA ASN D 385	33.988 101.519 63.048 1.00 24.06	C
ATOM 14030	CB ASN D 385	32.684 102.335 63.209 1.00 24.13	C
ATOM 14033	CG ASN D 385	31.483 101.442 63.519 1.00 24.57	C
ATOM 14034	OD1 ASN D 385	31.241 100.474 62.811 1.00 25.47	О
ATOM 14035	ND2 ASN D 385	30.748 101.753 64.583 1.00 24.61	N
ATOM 14038	C ASN D 385	35.081 102.312 62.327 1.00 23.13	С
	O ASN D 385		Ο
		36.333 102.115 62.711 1.00 22.23	N
		37.432 102.819 62.085 1.00 21.64	С
	CB VALD 386		C
	CG1 VAL D 386	39.801 103.489 62.308 1.00 23.24	C
	CG2 VAL D 386	38.236 103.653 64.260 1.00 22.08	C
	C VALD 386	37.885 102.117 60.822 1.00 21.29	C
	O VAL D 386	38.262 100.962 60.871 1.00 20.91	ŏ
	N GLN D 387	37.870 102.840 59.706 1.00 21.17	Ň
•	CA GLN D 387	38.274 102.337 58.382 1.00 21.11	C
	CB GLN D 387	37.755 103.298 57.316 1.00 21.60	c
	CG GLN D 387	36.228 103.474 57.271 1.00 23.84	C
	CD GLN D 387	35.442 102.152 57.315 1.00 26.84	C
	OE1 GLN D 387	35.231 101.587 58.402 1.00 29.70	0
	NE2 GLN D 387	34.983 101.681 56.151 1.00 26.87	N
	C GLN D 387	39.790 102.150 58.138 1.00 20.46	C
	O GLN D 387	40.206 101.134 57.551 1.00 20.17	0
ATOM 14073	N GLU D 388	40.598 103.122 58.578 1.00 19.57	N

<b>ATOM</b>	14075	CA GLU D 388	42.057 103.106 58.374 1.00 19.19	C
<b>ATOM</b>	14077	CB GLU D 388	42.469 104.335 57.573 1.00 19.45	C
ATOM	14080	CG GLU D 388	41.610 104.524 56.323 1.00 21.28	C
ATOM	14083	CD GLU D 388	42.299 105.317 55.207 1.00 22.49	C
ATOM	14084	OE1 GLU D 388	42.265 106.564 55.252 1.00 22.05	O
		OE2 GLU D 388	42.874 104.695 54.281 1.00 23.94	O
		C GLU D 388	42.840 103.030 59.684 1.00 18.12	С
		O GLU D 388	43.472 103.984 60.101 1.00 18.05	O
		N PRO D 389	42.800 101.896 60.357 1.00 17.29	N
		CA PRO D 389	43.466 101.816 61.649 1.00 16.81	С
		CB PRO D 389	43.156 100.416 62.141 1.00 17.09	С
		CG PRO D 389	42.733 99.631 60.902 1.00 17.43	С
		CD PRO D 389	42.123 100.640 59.984 1.00 17.25	C
		C PRO D 389	44.924 102.000 61.470 1.00 16.76	C
		O PRO D 389	45.491 102.671 62.276 1.00 17.36	Ō
		N GLY D 390	45.517 101.430 60.435 1.00 16.78	N
		CA GLY D 390	46.900 101.702 60.098 1.00 16.85	C
		C GLY D 390	47.293 103.169 60.158 1.00 17.28	C
		O GLY D 390	48.261 103.524 60.809 1.00 17.15	0
		N ARG D 391	46.527 104.017 59.489 1.00 18.14	N
		CA ARG D 391	46.796 105.440 59.439 1.00 19.06	C
		CB ARG D 391	45.861 106.150 58.473 1.00 19.79	C
		CG ARG D 391		Ċ
		CD ARG D 391		Č
		NE ARG D 391	44.909 107.848 56.239 1.00 35.63	N
		CZ ARG D 391	45.682 108.922 56.164 1.00 39.19	C
		NH1 ARG D 391	46.950 108.832 55.783 1.00 41.56	N
		NH2 ARG D 391	45.182 110.100 56.481 1.00 39.96	N
		C ARG D 391	46.624 106.037 60.774 1.00 18.88	C
		O ARG D 391	47.399 106.881 61.144 1.00 18.53	Ö
			45.605 105.609 61.511 1.00 19.28	N
			45.350 106.198 62.827 1.00 19.65	C
			43.978 105.775 63.400 1.00 19.47	Ċ
			43.740 106.387 64.752 1.00 18.81	C
		CG2 VAL D 392	42.846 106.211 62.462 1.00 19.77	Č
		C VAL D 392	46.523 105.888 63.790 1.00 20.35	C
ATOM			47.021 106.782 64.482 1.00 20.30	Ö
		N GLU D 393	46.988 104.639 63.776 1.00 21.00	N
		CA GLU D 393	48.068 104.174 64.638 1.00 21.57	C
		CB GLU D 393	48.298 102.681 64.426 1.00 22.36	Č
		CG GLU D 393	49.419 102.065 65.247 1.00 25.56	Č
		CD GLU D 393	49.519 100.549 65.063 1.00 29.06	Č
		OE1 GLU D 393	49.371 99.839 66.065 1.00 31.45	Ö
		OE2 GLU D 393	49.750 100.055 63.927 1.00 32.11	Ö
		C GLU D 393	49.333 104.933 64.350 1.00 21.24	C
ATOM			50.125 105.144 65.266 1.00 20.96	ŏ
		N ALA D 394	49.507 105.371 63.089 1.00 21.14	N
		CA ALA D 394	50.725 106.095 62.661 1.00 20.32	Ĉ
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ATOM	14168	CB ALA D 394	50.885 106.078 61.201 1.00 19.69	С
		C ALA D 394	50.694 107.510 63.153 1.00 20.38	С
		O ALA D 394	51.729 108.057 63.510 1.00 20.59	0
		N LEU D 395	49.505 108.098 63.196 1.00 20.47	N
		CA LEU D 395	49.336 109.420 63.790 1.00 20.77	C
		CB LEU D 395	47.928 109.938 63.560 1.00 20.81	č
		CG LEU D 395	47.649 110.100 62.087 1.00 22.26	Č
			46.175 110.293 61.869 1.00 23.63	C
			48.419 111.258 61.546 1.00 24.74	C
		C LEU D 395	49.597 109.397 65.302 1.00 20.59	C
		O LEU D 395	50.116 110.375 65.858 1.00 20.26	Õ
		N GLN D 396	49.251 108.293 65.960 1.00 19.73	N
		CA GLN D 396	49.356 108.260 67.403 1.00 20.05	C
		CB GLN D 396	48.667 107.012 68.017 1.00 20.37	C
		CG GLN D 396	48.454 107.124 69.537 1.00 20.06	C
		CD GLN D 396	47.979 105.861 70.193 1.00 20.29	C
		OE1 GLN D 396	46.858 105.815 70.696 1.00 20.80	o
		NE2 GLN D 396	48.835 104.857 70.247 1.00 19.12	N
		C GLN D 396	50.806 108.305 67.826 1.00 19.83	C
		O GLN D 396	51.114 108.806 68.894 1.00 19.67	Ö
		N GLN D 397	51.685 107.784 66.981 1.00 19.67	N
		CA GLN D 397	53.069 107.597 67.358 1.00 19.66	C
		CB GLN D 397	53.829 106.839 66.275 1.00 19.92	C
		CG GLN D 397	55.225 106.447 66.705 1.00 19.92	C
			56.027 105.832 65.573 1.00 24.57	C
		CD GLN D 397	55.676 104.737 65.095 1.00 27.99	0
		OE1 GLN D 397		N
		NE2 GLN D 397	57.090 106.521 65.130 1.00 22.32	
		C GLN D 397	53.790 108.884 67.776 1.00 18.93	С
		O GLN D 397	54.280 108.948 68.882 1.00 18.95	0
		N PRO D 398	53.881 109.911 66.940 1.00 18.52	N
		CA PROD 398	54.614 111.125 67.343 1.00 18.04	C
			54.289 112.146 66.236 1.00 17.79	C
		CG PRO D 398	53.418 111.502 65.290 1.00 18.23	C
		CD PRO D 398	53.354 110.017 65.574 1.00 18.57	C
		C PRO D 398	54.204 111.678 68.711 1.00 17.72	C
ATOM			55.055 112.182 69.418 1.00 17.84	0
		N TYR D 399	52.927 111.601 69.065 1.00 17.81	N
		CA TYR D 399	52.430 112.085 70.360 1.00 17.76	C
		CB TYR D 399	50.904 112.210 70.347 1.00 17.88	C
		CG TYR D 399	50.423 113.203 69.330 1.00 18.22	C
		CD1 TYR D 399	49.900 112.788 68.120 1.00 18.17	C
		CE1 TYR D 399	49.476 113.688 67.186 1.00 17.27	C
		CZ TYR D 399	49.572 115.031 67.443 1.00 18.04	C
		OH TYR D 399	49.155 115.953 66.493 1.00 17.86	0
		CE2 TYR D 399	50.086 115.469 68.641 1.00 17.94	C
		CD2 TYR D 399	50.516 114.560 69.566 1.00 18.61	C
		C TYR D 399	52.870 111.231 71.536 1.00 17.45	C
ATOM	14261	O TYR D 399	53.166 111.781 72.563 1.00 17.11	О

ATOM	14262 N VAL D 400	52.889 109.903 71.383 1.00 17.74	N
	14264 CA VAL D 400	53.475 108.999 72.372 1.00 18.33	C
ATOM	14266 CB VAL D 400	53.382 107.504 71.998 1.00 18.16	C
ATOM	14268 CG1 VAL D 400	54.016 106.663 73.066 1.00 18.08	C
ATOM	14272 CG2 VAL D 400	51.950 107.048 71.791 1.00 18.79	C
	14276 C VAL D 400	54.954 109.321 72.540 1.00 19.34	С
	14277 O VAL D 400	55.375 109.541 73.667 1.00 20.53	Ο
ATOM	14278 N GLU D 401	55.748 109.327 71.456 1.00 19.54	N
	14280 CA GLU D 401	57.165 109.730 71.513 1.00 20.05	C
	14282 CB GLU D 401	57.768 109.846 70.103 1.00 20.71	С
	14285 CG GLU D 401	58.174 108.538 69.449 1.00 23.83	C
	14288 CD GLU D 401	58.507 108.676 67.962 1.00 27.86	С
	14289 OE1 GLU D 401	58.158 107.761 67.168 1.00 29.33	O
	14290 OE2 GLU D 401	59.124 109.693 67.572 1.00 30.78	O
	14291 C GLU D 401	57.386 111.067 72.235 1.00 19.70	C
	14292 O GLU D 401	58.376 111.258 72.944 1.00 19.28	O
	14293 N ALA D 402	56.466 111.996 72.026 1.00 19.60	N
	14295 CA ALA D 402	56.605 113.336 72.554 1.00 19.82	C
	14297 CB ALA D 402	55.639 114.281 71.874 1.00 19.93	Č
	14301 C ALA D 402	56.366 113.321 74.046 1.00 19.90	C
	14302 O ALA D 402	57.041 114.027 74.790 1.00 19.68	Ö
	14303 N LEU D 403	55,397 112.516 74.486 1.00 20.33	N
	14305 CA LEU D 403	55.117 112.341 75.932 1.00 20.21	C
	14307 CB LEU D 403		Ċ
	14310 CG LEU D 403	53.272 111.494 77.583 1.00 19.78	Č
	14312 CD1 LEU D 403	53.147 112.824 78.312 1.00 19.37	C
	14316 CD2 LEU D 403	51.928 110.778 77.535 1.00 20.17	Č
	14320 C LEU D 403	56.250 111.598 76.628 1.00 20.40	C
	14321 O LEU D 403	56.647 111.944 77.744 1.00 19.78	Ö
	14322 N LEU D 404	56.787 110.599 75.940 1.00 20.87	N
	14324 CA LEU D 404	57.922 109.874 76.446 1.00 21.50	C
	14326 CB LEU D 404	58.307 108.735 75.505 1.00 22.00	Č
	14329 CG LEU D 404	59,590 107.976 75.858 1.00 23.85	Č
	14331 CD1 LEU D 404	59.647 107.648 77.336 1.00 24.72	C
	14335 CD2 LEU D 404	59.686 106.722 75.012 1.00 25.57	C
	14339 C LEU D 404	59.065 110.849 76.629 1.00 21.29	C
	14340 O LEU D 404	59.571 110.981 77.735 1.00 21.48	Ö
	14341 N SER D 405	59.467 111.540 75.562 1.00 21.06	N
	14343 CA SER D 405	60.562 112.515 75.675 1.00 20.85	C
	14345 CB SER D 405	60.822 113.286 74.361 1.00 20.96	Č
	14348 OG SER D 405	60.975 112.427 73.240 1.00 21.81	Ö
	14350 C SER D 405	60.244 113.517 76.784 1.00 20.13	Č
-	14351 O SER D 405	61.091 113.797 77.621 1.00 19.94	Ö
	14352 N TYR D 406	59.011 114.024 76.798 1.00 19.43	N
	14354 CA TYR D 406	58.646 115.094 77.702 1.00 18.84	Ċ
	14354 CA TTR D 406	57.238 115.627 77.432 1.00 18.39	Č
	14359 CG TYR D 406	56.862 116.741 78.386 1.00 17.05	C
	14360 CD1 TYR D 406	57.171 118.076 78.109 1.00 15.16	C
711 0141	11500 CD1 111 D 400	J,.1/1 110.0/0 /0.107 1.00 10.10	_

ATOM 143	62 CE1 TYR D 406	56.833 119.082 78.995 1.00 14.91	C
ATOM 143	64 CZ TYR D 406	56.206 118.754 80.188 1.00 16.13	С
ATOM 143	65 OH TYR D 406	55.846 119.695 81.104 1.00 14.27	О
ATOM 143	67 CE2 TYR D 406	55.906 117.447 80.482 1.00 16.65	С
ATOM 143	69 CD2 TYR D 406	56.232 116.453 79.584 1.00 16.33	C
ATOM 143	71 C TYR D 406	58.746 114.666 79.142 1.00 19.41	C
ATOM 143	72 O TYR D 406	59.028 115.485 79.976 1.00 19.36	Ο
ATOM 143	73 N THR D 407	58.493 113.396 79.444 1.00 20.52	N
ATOM 143	75 CA THR D 407	58.482 112.931 80.835 1.00 21.10	С
ATOM 143	77 CB THR D 407	57.516 111.698 81.056 1.00 20.94	С
ATOM 143	79 OG1 THR D 407	7 57.835 110.613 80.169 1.00 20.10	О
ATOM 143	31 CG2 THR D 407	56.051 112.054 80.756 1.00 19.23	C
ATOM 143	35 C THR D 407	59.906 112.630 81.289 1.00 22.45	C
ATOM 143	36 O THR D 407	60.283 112.953 82.408 1.00 22.09	O
ATOM 143	87 N ARG D 408	60.701 112.039 80.403 1.00 24.36	N
ATOM 143	89 CA ARG D 408	62.096 111.730 80.698 1.00 26.24	C
ATOM 1439	91 CB ARG D 408	62.793 111.078 79.486 1.00 26.81	C
ATOM 1439	94 CG ARG D 408	64.370 111.225 79.434 1.00 30.29	C
ATOM 1439	97 CD ARG D 408	65.132 110.223 78.489 1.00 34.24	C
ATOM 144	00 NE ARG D 408	64.408 108.944 78.269 1.00 37.86	N
ATOM 144	02 CZ ARG D 408	63.554 108.681 77.252 1.00 38.72	С
ATOM 144	03 NH1 ARG D 408	8 63.292 109.603 76.318 1.00 39.53	N
ATOM 144	06 NH2 ARG D 408	8 62.956 107.486 77.169 1.00 37.88	N
ATOM 144	09 C ARG D 408	62.817 112.997 81.095 1.00 27.27	С
ATOM 144	10 O ARG D 408	63.692 112.956 81.959 1.00 27.78	О
ATOM 144	11 N ILE D 409	62.431 114.115 80.464 1.00 28.53	N
ATOM 144	13 CA ILE D 409	63.077 115.424 80.630 1.00 29.10	C
ATOM 144	15 CB ILE D 409	63.066 116.182 79.281 1.00 29.21	C
ATOM 144	17 CG1 ILE D 409	64.268 115.730 78.431 1.00 29.57	С
ATOM 144	20 CD1 ILE D 409	64.193 116.098 76.959 1.00 29.86	С
ATOM 144	24 CG2 ILE D 409	63.061 117.705 79.493 1.00 29.59	C
ATOM 144	28 C ILE D 409	62.487 116.276 81.765 1.00 29.69	C
ATOM 144	29 O ILE D 409	63.228 116.746 82.592 1.00 29.72	O
ATOM 144	30 N LYS D 410	61.178 116.487 81.800 1.00 30.89	N
ATOM 144	32 CA LYS D 410	60.531 117.179 82.918 1.00 32.02	C
	34 CB LYS D 410	59.002 117.161 82.774 1.00 32.44	С
ATOM 144	37 CG LYS D 410	58.190 117.327 84.113 1.00 32.79	С
	40 CD LYS D 410	56.837 116.581 84.104 1.00 31.65	C
	43 CE LYS D 410	55.787 117.260 85.007 1.00 30.17	С
ATOM 144	46 NZ LYS D 410	56.117 117.221 86.431 1.00 28.02	N
ATOM 144	50 C LYS D 410	60.875 116.538 84.243 1.00 33.11	C
ATOM 144	51 O LYS D 410	61.362 117.206 85.148 1.00 33.27	О
ATOM 144	52 N ARG D 411	60.585 115.245 84.363 1.00 34.55	N
ATOM 144	54 CA ARG D 411	60.703 114.520 85.639 1.00 35.80	С
ATOM 144	56 CB ARG D 411	59.308 114.044 86.094 1.00 36.44	C
ATOM 144	59 CG ARG D 411	58.489 115.071 86.893 1.00 39.72	C
ATOM 144	62 CD ARG D 411	58.082 114.617 88.323 1.00 44.12	C
ATOM 144	65 NE ARG D 411		N

ATOM	14467	CZ ARG D 411	55.999 114.009 89.559 1.00 50.05	С
		NH1 ARG D 411	56.695 113.552 90.609 1.00 50.31	N
		NH2 ARG D 411	54.663 113.974 89.588 1.00 50.69	· N
		C ARG D 411	61.636 113.306 85.530 1.00 35.61	C
		O ARG D 411	61.169 112.168 85.573 1.00 35.68	0
		N PRO D 412	62.947 113.518 85.419 1.00 35.51	N
		CA PRO D 412	63.854 112.390 85.140 1.00 35.54	C
		CB PRO D 412	65.249 113.049 85.043 1.00 35.48	С
		CG PRO D 412	65.101 114.467 85.498 1.00 35.29	С
		CD PRO D 412	63.656 114.800 85.575 1.00 35.29	С
		C PRO D 412	63.811 111.271 86.211 1.00 35.66	C
		O PRO D 412	64.209 110.132 85.929 1.00 35.74	Ο
			63.280 111.594 87.394 1.00 35.64	N
		CA GLN D 413	63.360 110.739 88.585 1.00 35.41	С
		CB GLN D 413	63.624 111.604 89.827 1.00 35.43	С
		CG GLN D 413	64.420 112.883 89.582 1.00 35.38	С
		CD GLN D 413	65.705 112.904 90.352 1.00 35.03	С
		OE1 GLN D 413	65.725 113.297 91.515 1.00 34.71	О
		NE2 GLN D 413	66.788 112.476 89.712 1.00 35.14	N
		C GLN D 413	62.107 109.877 88.846 1.00 35.14	С
		O GLN D 413	62.034 109.185 89.868 1.00 35.15	O
		N ASP D 414	61.124 109.937 87.952 1.00 34.61	N
ATOM	14509	CA ASP D 414	59.931 109.106 88.057 1.00 34.34	C
		CB ASP D 414	58.702 109.985 88.325 1.00 34.59	C
		CG ASP D 414	57.478 109.181 88.766 1.00 35.67	C
			57.651 108.168 89.474 1.00 35.66	О
		OD2 ASP D 414	56.296 109.494 88.467 1.00 37.51	Ο
		C ASP D 414	59.774 108.314 86.762 1.00 33.63	C
		O ASP D 414	59.101 108.754 85.850 1.00 33.48	0
		N GLN D 415	60.427 107.159 86.676 1.00 33.06	N
		CA GLN D 415	60.407 106.343 85.453 1.00 32.58	C
		CB GLN D 415	61.481 105.242 85.500 1.00 32.89	С
		CG GLN D 415	62.742 105.530 84.689 1.00 33.42	С
		CD GLN D 415	63.769 104.401 84.790 1.00 34.07	С
			63.678 103.410 84.069 1.00 34.50	О
		NE2 GLN D 415	64.742 104.551 85.685 1.00 34.30	N
		C GLN D 415	59.034 105.706 85.198 1.00 31.88	С
		O GLN D 415	58.685 105.460 84.044 1.00 31.77	Ο
		N LEU D 416	58.268 105.459 86.268 1.00 30.95	N
		CA LEU D 416	56.920 104.880 86.177 1.00 30.43	С
		CB LEU D 416	56.521 104.222 87.489 1.00 30.43	С
		CG LEU D 416	57.531 103.266 88.119 1.00 31.29	С
		CD1 LEU D 416	57.081 102.858 89.539 1.00 31.25	C
		CD2 LEU D 416	57.737 102.053 87,210 1.00 31.92	C
		C LEU D 416	55.839 105.898 85.858 1.00 29.89	C
		O LEU D 416	54.700 105.549 85.668 1.00 30.26	0
		N ARG D 417	56.192 107.166 85.845 1.00 29.36	N
		CA ARG D 417	55.268 108.235 85.513 1.00 28.75	C

			56.056 109.542 85.476 1.00 29.25	С
			55.308 110.758 85.888 1.00 31.25	С
		CD ARG D 417	55.780 112.009 85.138 1.00 33.19	C
		NE ARG D 417		N
ATOM	14570	CZ ARG D 417	53.993 113.513 85.807 1.00 37.31	С
			53.109 112.745 85.184 1.00 39.76	N
			53.588 114.610 86.426 1.00 38.44	N
		C ARG D 417		С
			53.385 107.942 84.021 1.00 27.07	О
		N PHE D 418	55.457 107.834 83.127 1.00 25.85	N
			54.958 107.667 81.766 1.00 24.54	C
			56.122 107.534 80.769 1.00 24.61	C
			55.696 107.188 79.378 1.00 23.32	С
ATOM	14587	CD1 PHE D 418	54.917 108.078 78.641 1.00 22.26	C
			54.518 107.786 77.357 1.00 22.16	C
ATOM	14591	CZ PHE D 418	54.891 106.587 76.783 1.00 24.31	С
ATOM	14593	CE2 PHE D 418	55.679 105.676 77.526 1.00 25.48	С
ATOM	14595	CD2 PHE D 418	56.076 105.989 78.810 1.00 23.20	С
ATOM	14597	C PHE D 418	53.974 106.500 81.655 1.00 23.42	C
		O PHE D 418	52.875 106.688 81.148 1.00 22.44	Ο
			54.361 105.298 82.096 1.00 22.50	N
			53.443 104.152 82.092 1.00 21.99	С
ATOM	14602	CB PRO D 419	54.321 102.995 82.532 1.00 21.81	C
		CG PRO D 419	55.475 103.565 83.062 1.00 22.24	С
		CD PRO D 419	55.711 104.889 82.483 1.00 22.02	С
ATOM	14611	C PRO D 419	52.198 104.274 82.958 1.00 21.58	С
		O PRO D 419		Ο
			52.267 104.906 84.102 1.00 21.99	N
ATOM	14615	CA ARG D 420	51.044 105.174 84.843 1.00 23.26	C
			51.349 105.893 86.160 1.00 23.88	C
ATOM	14620	CG ARG D 420	51.870 104.968 87.251 1.00 26.16	С
ATOM	14623	CD ARG D 420	51.849 105.581 88.622 1.00 29.60	С
<b>ATOM</b>	14626	NE ARG D 420	53.001 105.155 89.403 1.00 32.35	N
ATOM	14628	CZ ARG D 420		С
<b>ATOM</b>	14629	NH1 ARG D 420	54.197 107.158 89.217 1.00 35.49	N
<b>ATOM</b>	14632	NH2 ARG D 420	55.056 105.378 90.398 1.00 36.26	N
		C ARG D 420	50.037 106.008 84.047 1.00 23.47	С
ATOM	14636	O ARG D 420	48.821 105.857 84.213 1.00 23.23	O
		N MET D 421	50.539 106.904 83.205 1.00 23.89	N
<b>ATOM</b>	14639	CA MET D 421	49.664 107.759 82.417 1.00 24.26	С
<b>ATOM</b>	14641	CB MET D 421	50.419 108.942 81.815 1.00 24.93	С
<b>ATOM</b>	14644	CG MET D 421	51.175 109.808 82.828 1.00 26.72	C
<b>ATOM</b>	14647	SD MET D 421	52.122 111.087 82.001 1.00 29.13	S
		CE MET D 421	50.840 111.852 81.119 1.00 31.24	C
ATOM	14652	C MET D 421	49.016 106.984 81.306 1.00 23.71	C
		O MET D 421	47.846 107.178 81.053 1.00 23.34	О
		N LEU D 422	49.778 106.117 80.636 1.00 23.83	N
ATOM	14656	CA LEU D 422	49.211 105.221 79.611 1.00 23.76	С

ATOM 14658 CB LEU D 422 ATOM 14667 CD LEU D 422 ATOM 14667 CD2 LEU D 422 ATOM 14667 CD2 LEU D 422 ATOM 14667 CD2 LEU D 422 ATOM 14671 C LEU D 422 ATOM 14672 O LEU D 423 ATOM 14673 N MET D 423 ATOM 14675 CA MET D 423 ATOM 14676 CB MET D 423 ATOM 14676 CB MET D 423 ATOM 14680 CG MET D 423 ATOM 14680 CG MET D 423 ATOM 14688 C MET D 423 ATOM 14689 O MET D 423 ATOM 14680 CG MET D 243 ATOM 14680 CG MET D 243 ATOM 14680 CG LYS D 424 ATOM 14690 N LYS D 424 ATOM 14690 N LYS D 424 ATOM 14690 N LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14701 C LYS D 424 ATOM 14710 C LYS D 424 ATOM 14711 O LYS D 424 ATOM 14710 C LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14712 N LEU D 425 ATOM 14712 CD LEU D 425 ATOM 14713 CG LEU D 425 ATOM 14713 CG LEU D 425 ATOM 14714 CA LEU D 425 ATOM 14715 CD ZELU D 425 ATOM 14731 CG LYS D 426 ATOM 14731 CG LEU D 425 ATOM 14731 CG LYS D 426 ATOM 14731 CG SER D 427 ATOM 14744 CG VAL D 426 ATOM 14737 CG IVAL D 426 ATOM 14747 N SER D 427 ATOM 14746 O VAL D 246 ATOM 14747 N SER D 427 ATOM 14746 O VAL D 246 ATOM 14747 N SER D 427 ATOM 14758 N LEU D 428 ATOM 14758 C SER D 427 ATOM 14756 CG LEU D 428 ATOM 14757 CG SER D 427 ATOM 14756 CG LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CB LEU D 428 ATOM 14760 CB LEU D 428 ATOM 14760 CB LEU D 428 ATOM 14760 CC LEU D 428 ATOM 14760 CC LEU D 428 ATOM 14760 CG LEU D 428 ATOM 14760 CC LEU D 428 ATOM 14760 CC LEU D 428 AT					
ATOM 14667 CD2 LEU D 422 ATOM 14671 C LEU D 422 ATOM 14671 C LEU D 422 ATOM 14672 O LEU D 422 ATOM 14672 O LEU D 422 ATOM 14673 N MET D 423 ATOM 14675 CA MET D 423 ATOM 14675 CA MET D 423 ATOM 14676 CB MET D 423 ATOM 14680 SG MET D 423 ATOM 14680 SG MET D 423 ATOM 14681 C MET D 423 ATOM 14680 CG MET D 423 ATOM 14682 C MET D 423 ATOM 14680 C MET D 423 ATOM 14680 N LYS D 424 ATOM 14690 CA LYS D 424 ATOM 14690 N LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14710 C LYS D 424 ATOM 14710 C LYS D 424 ATOM 14710 C LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14712 N LEU D 425 ATOM 14712 N LEU D 425 ATOM 14712 CD1 LEU D 425 ATOM 14713 CB LEU D 425 ATOM 14731 N VAL D 265 ATOM 14731 CD1 LEU D 425 ATOM 14730 CB LYB D 426 ATOM 14731 CD1 LEU D 425 ATOM 14731 CD2 LEU D 425 ATOM 14731 CD2 LEU D 425 ATOM 14731 CD2 LEU D 425 ATOM 14731 CD3 LEU D 426 ATOM 14740 CD2 LEU D 425 ATOM 14731 CD3 LEU D 425 ATOM 14731 CD3 LEU D 426 ATOM 14731 CD3 LEU D 426 ATOM 14731 CD3 LEU D 426 ATOM 14740 CD3 LEU D 426 ATOM 14740 CD3 LEU D 426 ATOM 14740 CD3 LEU D 426 ATOM 14747 CD3 LEU D 426 ATOM 14740	ATOM	14658	CB LEU D 422		
ATOM 14667 CD2 LEU D 422 ATOM 14671 C LEU D 422 ATOM 14672 O LEU D 422 ATOM 14673 N MET D 423 ATOM 14675 CA MET D 423 ATOM 14676 CB MET D 423 ATOM 14680 CG MET D 423 ATOM 14680 CG MET D 423 ATOM 14680 CG MET D 423 ATOM 14688 C MET D 423 ATOM 14688 C MET D 423 ATOM 14688 C MET D 423 ATOM 14680 CG MET D 423 ATOM 14680 C MET D 423 ATOM 14690 N LYS D 424 ATOM 14690 C CA LYS D 424 ATOM 14690 C CA LYS D 424 ATOM 14690 C C LYS D 424 ATOM 14700 NZ LYS D 424 ATOM 14710 C LYS D 424 ATOM 14710 C LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14712 N LEU D 425 ATOM 14712 N LEU D 425 ATOM 14713 N VAL D 245 ATOM 14713 CG LEU D 425 ATOM 14721 CD1 LEU D 425 ATOM 14721 CD1 LEU D 425 ATOM 14722 CD2 LEU D 425 ATOM 14730 C ELU D 425 ATOM 14730 C EU D 425 ATOM 14730 C EU D 425 ATOM 14731 N VAL D 246 ATOM 14730 C EU D 425 ATOM 14730 C SER D 427 ATOM 14740 C SER D 427 ATOM 14750 C SER D 427 ATOM 14750 N LEU D 428 ATOM 14750 C SER D 427 ATOM 14750 C SER D 427 ATOM 14751 C B SER D 427 ATOM 14756 C SER D 427 ATOM 14758 N LEU D 428 ATOM 14758 O SER D 427 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CB LEU D 428 ATO	ATOM	14661	CG LEU D 422	51.351 105.058 78.132 1.00 24.63	
ATOM 14671 C LEU D 422 ATOM 14672 O LEU D 422 ATOM 14673 N MET D 423 ATOM 14673 N MET D 423 ATOM 14675 CA MET D 423 ATOM 14675 CA MET D 423 ATOM 14676 CA LEU D 425 ATOM 14680 CG MET D 423 ATOM 14680 CG MET D 423 ATOM 14683 SD MET D 423 ATOM 14688 C MET D 423 ATOM 14688 C MET D 423 ATOM 14689 O MET D 423 ATOM 14689 C MET D 423 ATOM 14689 C MET D 423 ATOM 14690 N LYS D 424 ATOM 14690 N LYS D 424 ATOM 14690 CD LYS D 424 ATOM 14690 CD LYS D 424 ATOM 14690 CD LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14701 C LYS D 424 ATOM 14701 C LYS D 424 ATOM 14701 C LYS D 424 ATOM 14710 C LYS D 424 ATOM 14710 C LYS D 424 ATOM 14711 O LYS D 424 ATOM 14712 N LEU D 425 ATOM 14712 CD LEU D 425 ATOM 14712 CD LEU D 425 ATOM 14712 CD LEU D 425 ATOM 14713 CA VAL D 426 ATOM 14731 N VAL D 426 ATOM 14735 CB VAL D 426 ATOM 14740 CG VAL D 426 ATOM 14740 CS ER D 427 ATOM 14756 C SER D 427 ATOM 14756 C SER D 427 ATOM 14757 O SER D 427 ATOM 14757 O SER D 427 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14757 O SER D 427 ATOM 14756 C SER D 427 ATOM 14758 N LEU D 428 ATOM 14756 CB ELU D 428 ATOM 14756 CB ELU D 428 ATOM 14756 CB ELU D 428 ATOM 14758 N LEU D 428 ATOM 14756 CB ELU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CB LEU	ATOM	14663	CD1 LEU D 422		
ATOM 14672 O LEUD 422				50.771 105.927 77.085 1.00 25.19	C
ATOM 14673 N MET D 423 ATOM 14675 CA MET D 423 ATOM 14676 CA MET D 423 ATOM 14676 CB MET D 423 ATOM 14680 CG MET D 423 ATOM 14680 CG MET D 423 ATOM 14688 CG MET D 423 ATOM 14688 CE MET D 423 ATOM 14688 C MET D 423 ATOM 14689 O MET D 423 ATOM 14689 O MET D 423 ATOM 14690 N LYS D 424 ATOM 14690 CA LYS D 424 ATOM 14691 CB LYS D 424 ATOM 14690 CD LYS D 424 ATOM 14690 CD LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14701 C LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14712 N LEU D 425 ATOM 14716 CB LEU D 425 ATOM 14716 CB LEU D 425 ATOM 14716 CB LEU D 425 ATOM 14735 CB VAL D 426 ATOM 14735 CB VAL D 426 ATOM 14736 C VAL D 426 ATOM 14746 O VAL D 426 ATOM 14747 N SER D 427 ATOM 14756 C SER D 427 ATOM	ATOM	14671	C LEU D 422		C
ATOM 14675 CA MET D 423 ATOM 14676 CB MET D 423 ATOM 14680 CG MET D 423 ATOM 14683 SD MET D 423 ATOM 14684 CE MET D 423 ATOM 14688 C MET D 423 ATOM 14688 C MET D 423 ATOM 14689 O MET D 423 ATOM 14689 O MET D 423 ATOM 14690 N LYS D 424 ATOM 14690 N LYS D 424 ATOM 14690 N LYS D 424 ATOM 14690 CC LYS D 424 ATOM 14690 CC LYS D 424 ATOM 14697 CG LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14710 C LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 C LYS D 424 ATOM 14712 N LEU D 425 ATOM 14716 CB LEU D 425 ATOM 14716 CB LEU D 425 ATOM 14725 CD2 LEU D 425 ATOM 14733 CA VAL D 426 ATOM 14735 CB VAL D 426 ATOM 14736 C SER D 427 ATOM 14746 C SER D 427 ATOM 14751 CB SER D 427 ATOM 14751 CB SER D 427 ATOM 14756 C SER D 427 A	ATOM	14672	O LEU D 422	47.150 104.031 79.586 1.00 23.45	Ο
ATOM 14677 CB MET D 423 ATOM 14680 CG MET D 423 ATOM 14683 SD MET D 423 ATOM 14683 SD MET D 423 ATOM 14684 CE MET D 423 ATOM 14688 C MET D 423 ATOM 14689 O MET D 423 ATOM 14689 O MET D 423 ATOM 14690 N LYS D 424 ATOM 14692 CA LYS D 424 ATOM 14694 CB LYS D 424 ATOM 14690 CD LYS D 424 ATOM 14690 CD LYS D 424 ATOM 14703 CE LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14701 C LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14712 N LEU D 425 ATOM 14712 CD1 LEU D 425 ATOM 14725 CD2 LEU D 425 ATOM 14733 CA VAL D 426 ATOM 14733 CG I VAL D 426 ATOM 14735 C B VAL D 426 ATOM 14746 O VAL D 426 ATOM 14746 O VAL D 426 ATOM 14747 N SER D 427 ATOM 14746 C SER D 427 ATOM 14758 N LEU D 428 ATOM 14758 N SER D 427 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428	ATOM	14673	N MET D 423	48.326 103.952 81.464 1.00 23.51	N
ATOM 14680 CG MET D 423 ATOM 14683 SD MET D 423 ATOM 14684 CE MET D 423 ATOM 14684 CE MET D 423 ATOM 14688 C MET D 423 ATOM 14689 O MET D 423 ATOM 14689 O MET D 423 ATOM 14690 N LYS D 424 ATOM 14691 CB LYS D 424 ATOM 14691 CB LYS D 424 ATOM 14690 CB LYS D 424 ATOM 14690 CB LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14700 NZ LYS D 424 ATOM 14706 NZ LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14712 N LEU D 425 ATOM 14712 CD1 LEU D 425 ATOM 14725 CD2 LEU D 425 ATOM 14730 O LEU D 425 ATOM 14731 N VAL D 426 ATOM 14733 CB VAL D 426 ATOM 14735 CB VAL D 426 ATOM 14735 CB VAL D 426 ATOM 14746 O VAL D 426 ATOM 14746 O VAL D 426 ATOM 14746 O SER D 427 ATOM 14755 O SER D 427 ATOM 14756 C SER D 427 ATOM 14757 O SER D 427 ATOM 14758 N LEU D 428 ATOM 14760 CB LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14756 CB LEU D 425 ATOM 14756 C SER D 427 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14756 CB LEU D 429 ATOM 14756 C SER D 427 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CB LEU D 428	ATOM	14675	CA MET D 423	47.413 103.037 82.103 1.00 23.89	
ATOM 14683 SD MET D 423 ATOM 14684 CE MET D 423 ATOM 14688 C MET D 423 ATOM 14688 C MET D 423 ATOM 14689 O MET D 423 ATOM 14689 O MET D 423 ATOM 14699 N LYS D 424 ATOM 14690 N LYS D 424 ATOM 14697 CG LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14706 NZ LYS D 424 ATOM 14710 C LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14712 N LEU D 425 ATOM 14716 CB LEU D 425 ATOM 14729 C LEU D 425 ATOM 14733 CA VAL D 426 ATOM 14735 CB VAL D 426 ATOM 14735 CB VAL D 426 ATOM 14746 O VAL D 426 ATOM 14746 O VAL D 426 ATOM 14747 N SER D 427 ATOM 14746 C SER D 427 ATOM 14756 C SER D 427 ATOM 14757 O SER D 427 ATOM 14757 O SER D 427 ATOM 14758 N LEU D 428 ATOM 14756 C B LEU D 428 ATOM 14756 C B LEU D 428 ATOM 14757 O SER D 427 ATOM 14758 N LEU D 428 ATOM 14756 C B LEU D 428 ATOM 14756 C B LEU D 428 ATOM 14757 O SER D 427 ATOM 14758 N LEU D 428 ATOM 14756 C B LEU D 428 ATOM 14756 C B LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14756 C B LEU D 428 ATOM 14756 C B LEU D 428 ATOM 14757 O SER D 427 ATOM 14760 CA LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CB LEU D 428 A	ATOM	14677	CB MET D 423	48.065 102.407 83.324 1.00 24.92	
ATOM 14684 CE MET D 423 ATOM 14688 C MET D 423 ATOM 14689 O MET D 423 ATOM 14690 N LYS D 424 ATOM 14690 N LYS D 424 ATOM 14692 CA LYS D 424 ATOM 14694 CB LYS D 424 ATOM 14697 CG LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14700 NZ LYS D 424 ATOM 14701 C LYS D 424 ATOM 14710 C LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14712 N LEU D 425 ATOM 14712 CD1 LEU D 425 ATOM 14725 CD2 LEU D 425 ATOM 14730 O LEU D 425 ATOM 14730 O LEU D 425 ATOM 14730 O LEU D 425 ATOM 14731 N VAL D 426 ATOM 14733 CA VAL D 426 ATOM 14735 CB VAL D 426 ATOM 14736 C SER D 427 ATOM 14746 O SER D 427 ATOM 14756 C SER D 427 ATOM 14757 O SER D 427 ATOM 14758 N LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14757 O SER D 427 ATOM 14760 CB LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CB LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CB LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14756 C SER D 427 ATOM 14758 N LEU D 428 ATOM 14760 CB LEU D 428 ATOM 14	ATOM	14680	CG MET D 423	48.117 100.894 83.262 1.00 29.02	
ATOM 14688 C MET D 423 ATOM 14689 O MET D 423 ATOM 14689 O MET D 423 ATOM 14690 N LYS D 424 ATOM 14692 CA LYS D 424 ATOM 14694 CB LYS D 424 ATOM 14696 CG LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14706 NZ LYS D 424 ATOM 14706 NZ LYS D 424 ATOM 14710 C LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14712 N LEU D 425 ATOM 14716 CB LEU D 425 ATOM 14715 CG LEU D 425 ATOM 14721 CD1 LEU D 425 ATOM 14730 C LEU D 425 ATOM 14731 N VAL D 426 ATOM 14733 CA VAL D 426 ATOM 14735 CB VAL D 426 ATOM 14736 C SER D 427 ATOM 14746 O VAL D 426 ATOM 14747 N SER D 427 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14757 O SER D 427 ATOM 14758 N LEU D 428 ATOM 14758 CB LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14758 CB LEU D 428 ATOM 14758 CB LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14758 N LEU D 428 ATOM 14758 CB LEU D 428 ATOM 14758 CB LEU D 428 ATOM 14758 CB LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATO	ATOM	14683	SD MET D 423	49.756 100.266 82.996 1.00 36.10	
ATOM 14689 O MET D 423 ATOM 14690 N LYS D 424 ATOM 14690 CA LYS D 424 ATOM 14692 CA LYS D 424 ATOM 14694 CB LYS D 424 ATOM 14697 CG LYS D 424 ATOM 14697 CG LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14703 CE LYS D 424 ATOM 14706 NZ LYS D 424 ATOM 14710 C LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14712 N LEU D 425 ATOM 14712 CD LEU D 425 ATOM 14714 CA LEU D 425 ATOM 14725 CD2 LEU D 425 ATOM 14730 O LEU D 425 ATOM 14731 N VAL D 426 ATOM 14735 CB VAL D 426 ATOM 14736 CS EX D 427 ATOM 14747 N SER D 427 ATOM 14747 N SER D 427 ATOM 14747 N SER D 427 ATOM 14747 CO SER D 427 ATOM 14756 C SER D 427 ATOM 14756 C SER D 427 ATOM 14758 N LEU D 428 ATOM 14756 CA LEU D 428 ATOM 14758 N LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14757 O SER D 427 ATOM 14758 N LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14757 O SER D 427 ATOM 14758 N LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 1476	ATOM	14684	CE MET D 423	50.270 100.108 84.644 1.00 35.85	_
ATOM 14690 N LYS D 424 ATOM 14692 CA LYS D 424 ATOM 14692 CA LYS D 424 ATOM 14694 CB LYS D 424 ATOM 14697 CG LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14700 CE LYS D 424 ATOM 14701 C LYS D 424 ATOM 14710 C LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14712 N LEU D 425 ATOM 14714 CA LEU D 425 ATOM 14715 CB LEU D 425 ATOM 14725 CD2 LEU D 425 ATOM 14731 N VAL D 426 ATOM 14730 O LEU D 425 ATOM 14731 N VAL D 426 ATOM 14731 N VAL D 426 ATOM 14735 CB VAL D 426 ATOM 14736 CS ER D 427 ATOM 14747 N SER D 427 ATOM 14747 N SER D 427 ATOM 14747 N SER D 427 ATOM 14749 CA SER D 427 ATOM 14756 C SER D 427 ATOM 14756 C SER D 427 ATOM 14757 O SER D 427 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14757 O SER D 427 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14757 O SER D 427 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14757 O SER D 427 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14	ATOM	14688	C MET D 423	46.125 103.730 82.488 1.00 22.97	С
ATOM 14692 CA LYS D 424 ATOM 14694 CB LYS D 424 ATOM 14697 CG LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14706 NZ LYS D 424 ATOM 14701 C LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14712 N LEU D 425 ATOM 14716 CB LEU D 425 ATOM 14716 CB LEU D 425 ATOM 14721 CD1 LEU D 425 ATOM 14720 CD LEU D 425 ATOM 14730 O LEU D 425 ATOM 14730 O LEU D 425 ATOM 14731 N VAL D 426 ATOM 14731 CG VAL D 426 ATOM 14731 CG VAL D 426 ATOM 14734 CG VAL D 426 ATOM 14735 CB VAL D 426 ATOM 14736 C SER D 427 ATOM 14754 OG SER D 427 ATOM 14757 O SER D 427 ATOM 14758 N LEU D 428 ATOM 14756 C A LEU D 428 ATOM 14756 C A LEU D 428 ATOM 14750 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14750 CA LEU D 428 ATOM 14750 CA LEU D 428 ATOM 14750 CA LEU D 428 ATOM 14760 CA	ATOM	14689	O MET D 423	45.111 103.097 82.699 1.00 22.90	О
ATOM 14694 CB LYS D 424 ATOM 14697 CG LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14703 CE LYS D 424 ATOM 14703 CE LYS D 424 ATOM 14706 NZ LYS D 424 ATOM 14710 C LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14712 N LEU D 425 ATOM 14716 CB LEU D 425 ATOM 14716 CB LEU D 425 ATOM 14719 CG LEU D 425 ATOM 14721 CD1 LEU D 425 ATOM 14720 C LEU D 425 ATOM 14731 N VAL D 426 ATOM 14731 N VAL D 426 ATOM 14733 CA VAL D 426 ATOM 14734 CG VAL D 426 ATOM 14735 CB VAL D 426 ATOM 14736 C VAL D 426 ATOM 14746 C VAL D 426 ATOM 14747 N SER D 427 ATOM 14747 N SER D 427 ATOM 14747 O SER D 427 ATOM 14754 OG SER D 427 ATOM 14754 OG SER D 427 ATOM 14758 N LEU D 428 ATOM 14762 CB LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14758 N LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14758 N LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14758 N LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14758 N LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14756 CB LEU D 428 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CB LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CB LEU D 428 ATOM 14	ATOM	14690	N LYS D 424	46.131 105.042 82.569 1.00 22.20	N
ATOM 14697 CG LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14703 CE LYS D 424 ATOM 14706 NZ LYS D 424 ATOM 14710 C LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14712 N LEU D 425 ATOM 14716 CB LEU D 425 ATOM 14719 CG LEU D 425 ATOM 14721 CD1 LEU D 425 ATOM 14729 C LEU D 425 ATOM 14730 O LEU D 425 ATOM 14731 N VAL D 426 ATOM 14737 CG1 VAL D 426 ATOM 14737 CG1 VAL D 426 ATOM 14740 CO VAL D 426 ATOM 14747 N SER D 427 ATOM 14747 CG SER D 427 ATOM 14745 C SER D 427 ATOM 14756 C SER D 427 ATOM 14758 N LEU D 428 ATOM 14757 O SER D 427 ATOM 14758 N LEU D 428 ATOM 14756 C SER D 427 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14758 CB LEU D 428 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14756 C SER D 427 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14756 C SER D 427 ATOM 14758 N LEU D 428 ATOM 14756 C SER D 427 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14759 CA LEU D 428 ATOM 14758 N LEU D 428 ATOM 14759 CA LEU D 428 ATOM 14759 CA LEU D 428 ATOM 14758 N LEU D 428 ATOM 14759 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14759 CA LEU D 428 ATOM 14760 CA	ATOM	14692	CA LYS D 424	44.872 105.722 82.782 1.00 21.40	
ATOM 14700 CD LYS D 424 ATOM 14700 CD LYS D 424 ATOM 14703 CE LYS D 424 ATOM 14706 NZ LYS D 424 ATOM 14706 NZ LYS D 424 ATOM 14710 C LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14712 N LEU D 425 ATOM 14714 CA LEU D 425 ATOM 14716 CB LEU D 425 ATOM 14719 CG LEU D 425 ATOM 14721 CD1 LEU D 425 ATOM 14725 CD2 LEU D 425 ATOM 14730 O LEU D 425 ATOM 14731 N VAL D 426 ATOM 14731 CG1 VAL D 426 ATOM 14735 CB VAL D 426 ATOM 14745 C VAL D 426 ATOM 14746 O VAL D 426 ATOM 14747 N SER D 427 ATOM 14747 N SER D 427 ATOM 14746 C SER D 427 ATOM 14751 CB SER D 427 ATOM 14754 OG SER D 427 ATOM 14758 N LEU D 428 ATOM 14750 CA LEU D 428 ATOM 14750 CA LEU D 428 ATOM 14750 CA LEU D 428 ATOM 14750 C SER D 427 ATOM 14751 CB SER D 427 ATOM 14751 CB SER D 427 ATOM 14754 OG SER D 427 ATOM 14754 OG SER D 427 ATOM 14756 C SER D 427 ATOM 14756 C SER D 427 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CD LYS D 446 AC.926 105.664 81.48	ATOM	14694	CB LYS D 424	45.105 107.150 83.278 1.00 21.57	
ATOM 14703 CE LYS D 424 ATOM 14706 NZ LYS D 424 ATOM 14710 C LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14712 N LEU D 425 ATOM 14714 CA LEU D 425 ATOM 14716 CB LEU D 425 ATOM 14719 CG LEU D 425 ATOM 14719 CDI LEU D 425 ATOM 14719 CDI LEU D 425 ATOM 14725 CD2 LEU D 425 ATOM 14729 C LEU D 425 ATOM 14730 O LEU D 425 ATOM 14731 N VAL D 426 ATOM 14731 CG1 VAL D 426 ATOM 14731 CG2 VAL D 426 ATOM 14745 CB VAL D 426 ATOM 14746 O VAL D 426 ATOM 14746 O VAL D 426 ATOM 14747 N SER D 427 ATOM 14754 OG SER D 427 ATOM 14754 OG SER D 427 ATOM 14755 C SER D 427 ATOM 14756 C SER D 427 ATOM 14757 O SER D 427 ATOM 14758 N LEU D 428 ATOM 14760 CA LE	ATOM	14697	CG LYS D 424	45.961 107.252 84.560 1.00 21.85	
ATOM 14706 NZ LYS D 424 ATOM 14710 C LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14712 N LEU D 425 ATOM 14714 CA LEU D 425 ATOM 14716 CB LEU D 425 ATOM 14719 CG LEU D 425 ATOM 14721 CD1 LEU D 425 ATOM 14725 CD2 LEU D 425 ATOM 14730 O LEU D 425 ATOM 14731 N VAL D 426 ATOM 14737 CG1 VAL D 426 ATOM 14741 CG2 VAL D 426 ATOM 14746 O VAL D 426 ATOM 14747 N SER D 427 ATOM 14747 CA SER D 427 ATOM 14747 CG SER D 427 ATOM 14756 C SER D 427 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA	ATOM	14700	CD LYS D 424		
ATOM 14710 C LYS D 424 ATOM 14711 O LYS D 424 ATOM 14711 O LYS D 424 ATOM 14712 N LEU D 425 ATOM 14712 N LEU D 425 ATOM 14716 CB LEU D 425 ATOM 14719 CG LEU D 425 ATOM 14719 CG LEU D 425 ATOM 14721 CD1 LEU D 425 ATOM 14725 CD2 LEU D 425 ATOM 14730 O LEU D 425 ATOM 14731 N VAL D 426 ATOM 14737 CG1 VAL D 426 ATOM 14737 CG1 VAL D 426 ATOM 14746 O VAL D 426 ATOM 14745 C VAL D 426 ATOM 14746 O VAL D 426 ATOM 14747 N SER D 427 ATOM 14754 CG SER D 427 ATOM 14757 O SER D 427 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LE	ATOM	14703	CE LYS D 424		C
ATOM 14711 O LYS D 424 ATOM 14712 N LEU D 425 ATOM 14714 CA LEU D 425 ATOM 14716 CB LEU D 425 ATOM 14719 CG LEU D 425 ATOM 14721 CD1 LEU D 425 ATOM 14725 CD2 LEU D 425 ATOM 14730 O LEU D 425 ATOM 14731 N VAL D 426 ATOM 14731 CB VAL D 426 ATOM 14737 CG1 VAL D 426 ATOM 14741 CG2 VAL D 426 ATOM 14741 CG2 VAL D 426 ATOM 14747 N SER D 427 ATOM 14747 N SER D 427 ATOM 14756 C SER D 427 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760	ATOM	14706	NZ LYS D 424		
ATOM 14712 N LEU D 425 ATOM 14714 CA LEU D 425 ATOM 14716 CB LEU D 425 ATOM 14719 CG LEU D 425 ATOM 14721 CD1 LEU D 425 ATOM 14725 CD2 LEU D 425 ATOM 14729 C LEU D 425 ATOM 14730 O LEU D 425 ATOM 14731 N VAL D 426 ATOM 14735 CB VAL D 426 ATOM 14737 CG1 VAL D 426 ATOM 14746 C VAL D 426 ATOM 14745 C VAL D 426 ATOM 14745 C VAL D 426 ATOM 14745 C VAL D 426 ATOM 14746 O VAL D 426 ATOM 14747 N SER D 427 ATOM 14746 C SER D 427 ATOM 14756 C SER D 427 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14762 CB LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CB LEU	ATOM	14710	C LYS D 424	44.026 105.664 81.485 1.00 20.77	С
ATOM 14714 CA LEU D 425 ATOM 14716 CB LEU D 425 ATOM 14716 CB LEU D 425 ATOM 14719 CG LEU D 425 ATOM 14721 CD1 LEU D 425 ATOM 14725 CD2 LEU D 425 ATOM 14729 C LEU D 425 ATOM 14730 O LEU D 425 ATOM 14731 N VAL D 426 ATOM 14733 CA VAL D 426 ATOM 14735 CB VAL D 426 ATOM 14737 CG1 VAL D 426 ATOM 14740 C VAL D 426 ATOM 14741 CG2 VAL D 426 ATOM 14745 C VAL D 426 ATOM 14745 C VAL D 426 ATOM 14746 O VAL D 426 ATOM 14751 CB SER D 427 ATOM 14754 OG SER D 427 ATOM 14755 C SER D 427 ATOM 14756 C SER D 427 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CB	ATOM	14711	O LYS D 424	42.799 105.745 81.557 1.00 20.70	Ο
ATOM 14716 CB LEU D 425 ATOM 14719 CG LEU D 425 ATOM 14721 CD1 LEU D 425 ATOM 14725 CD2 LEU D 425 ATOM 14729 C LEU D 425 ATOM 14730 O LEU D 425 ATOM 14731 N VAL D 426 ATOM 14735 CB VAL D 426 ATOM 14737 CG1 VAL D 426 ATOM 14747 CG2 VAL D 426 ATOM 14744 CG2 VAL D 426 ATOM 14745 C VAL D 426 ATOM 14745 C VAL D 426 ATOM 14745 C VAL D 426 ATOM 14746 O VAL D 426 ATOM 14756 C SER D 427 ATOM 14757 O SER D 427 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CB LEU D 428 ATOM 14760 C	ATOM	14712	N LEU D 425	44.655 105.508 80.311 1.00 19.71	N
ATOM 14719 CG LEU D 425 ATOM 14721 CD1 LEU D 425 ATOM 14725 CD2 LEU D 425 ATOM 14729 C LEU D 425 ATOM 14730 O LEU D 425 ATOM 14731 N VAL D 426 ATOM 14735 CB VAL D 426 ATOM 14737 CG1 VAL D 426 ATOM 14747 CG2 VAL D 426 ATOM 14744 C C VAL D 426 ATOM 14747 N SER D 427 ATOM 14747 CB SER D 427 ATOM 14756 C SER D 427 ATOM 14757 O SER D 427 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 1476	ATOM	14714	CA LEU D 425	43.888 105.269 79.056 1.00 19.37	
ATOM 14721 CD1 LEU D 425 ATOM 14725 CD2 LEU D 425 ATOM 14729 C LEU D 425 ATOM 14730 O LEU D 425 ATOM 14731 N VAL D 426 ATOM 14733 CA VAL D 426 ATOM 14735 CB VAL D 426 ATOM 14737 CG1 VAL D 426 ATOM 14741 CG2 VAL D 426 ATOM 14740 O VAL D 426 ATOM 14747 N SER D 427 ATOM 14745 C SER D 427 ATOM 14751 CB SER D 427 ATOM 14754 OG SER D 427 ATOM 14756 C SER D 427 ATOM 14757 O SER D 427 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CB LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CB LEU D 425 ATOM 14760 C	ATOM	14716	CB LEU D 425	44.767 105.258 77.786 1.00 19.22	
ATOM 14725 CD2 LEU D 425 ATOM 14729 C LEU D 425 ATOM 14730 O LEU D 425 ATOM 14731 N VAL D 426 ATOM 14733 CA VAL D 426 ATOM 14735 CB VAL D 426 ATOM 14737 CG1 VAL D 426 ATOM 14741 CG2 VAL D 426 ATOM 14745 C VAL D 426 ATOM 14745 C VAL D 426 ATOM 14747 N SER D 427 ATOM 14747 N SER D 427 ATOM 14749 CA SER D 427 ATOM 14751 CB SER D 427 ATOM 14754 OG SER D 427 ATOM 14756 C SER D 427 ATOM 14757 O SER D 427 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CB LEU D 425 ATOM 14760 CB	ATOM	14719			
ATOM 14725 CD2 LEU D 425 ATOM 14729 C LEU D 425 ATOM 14730 O LEU D 425 ATOM 14731 N VAL D 426 ATOM 14733 CA VAL D 426 ATOM 14733 CB VAL D 426 ATOM 14735 CB VAL D 426 ATOM 14737 CG1 VAL D 426 ATOM 14741 CG2 VAL D 426 ATOM 14745 C VAL D 426 ATOM 14745 C VAL D 426 ATOM 14746 O VAL D 426 ATOM 14747 N SER D 427 ATOM 14751 CB SER D 427 ATOM 14754 OG SER D 427 ATOM 14756 C SER D 427 ATOM 14758 N LEU D 428 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CB LEU D 425 ATOM 14760 CB LEU D 425 ATOM 14760 CB	ATOM	14721	CD1 LEU D 425	46.741 106.209 76.606 1.00 20.06	
ATOM 14730 O LEU D 425				44.793 107.672 77.105 1.00 18.98	C
ATOM 14731 N VAL D 426	ATOM	14729	C LEU D 425	43.117 103.956 79.138 1.00 18.66	С
ATOM 14733 CA VAL D 426	ATOM	14730	O LEU D 425		О
ATOM 14735 CB VAL D 426	ATOM	14731	N VAL D 426	43.704 102.982 79.828 1.00 17.67	
ATOM 14737 CG1 VAL D 426	ATOM	14733	CA VAL D 426	43.076 101.685 80.040 1.00 16.70	
ATOM 14741 CG2 VAL D 426	ATOM	14735	CB VAL D 426	44.030 100.736 80.747 1.00 16.59	С
ATOM 14745 C VAL D 426 41.835 101.872 80.897 1.00 16.09 C ATOM 14746 O VAL D 426 40.722 101.485 80.524 1.00 14.69 O ATOM 14747 N SER D 427 42.041 102.505 82.044 1.00 15.87 N ATOM 14749 CA SER D 427 40.922 102.904 82.897 1.00 16.06 C ATOM 14751 CB SER D 427 41.417 103.777 84.032 1.00 15.33 C ATOM 14754 OG SER D 427 42.222 102.987 84.849 1.00 15.12 O ATOM 14756 C SER D 427 39.811 103.624 82.127 1.00 16.35 C ATOM 14757 O SER D 427 38.634 103.373 82.353 1.00 15.56 O ATOM 14758 N LEU D 428 40.198 104.493 81.210 1.00 17.44 N ATOM 14760 CA LEU D 428 39.234 105.305 80.471 1.00 18.87 C ATOM 14762 CB LEU D 428 39.935 106.401 79.629 1.00 19.18	ATOM	14737	CG1 VAL D 426	43.374 99.410 80.951 1.00 16.22	C
ATOM 14746 O VAL D 426 ATOM 14747 N SER D 427 ATOM 14749 CA SER D 427 ATOM 14751 CB SER D 427 ATOM 14754 OG SER D 427 ATOM 14754 OG SER D 427 ATOM 14756 C SER D 427 ATOM 14757 O SER D 427 ATOM 14758 N LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CB LEU D 428 ATOM 14762 CB LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14762 CB LEU D 428 ATOM 14762 CB LEU D 428 ATOM 14762 CB LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CA LEU D 428 ATOM 14760 CB LEU D 428 ATOM 14760	ATOM	14741	CG2 VAL D 426	45.325 100.574 79.950 1.00 16.64	C
ATOM 14747 N SER D 427 42.041 102.505 82.044 1.00 15.87 N ATOM 14749 CA SER D 427 40.922 102.904 82.897 1.00 16.06 C ATOM 14751 CB SER D 427 41.417 103.777 84.032 1.00 15.33 C ATOM 14754 OG SER D 427 42.222 102.987 84.849 1.00 15.12 O ATOM 14756 C SER D 427 39.811 103.624 82.127 1.00 16.35 C ATOM 14757 O SER D 427 38.634 103.373 82.353 1.00 15.56 O ATOM 14758 N LEU D 428 40.198 104.493 81.210 1.00 17.44 N ATOM 14760 CA LEU D 428 39.234 105.305 80.471 1.00 18.87 C ATOM 14762 CB LEU D 428 39.935 106.401 79.629 1.00 19.18	ATOM	14745	C VAL D 426	41.835 101.872 80.897 1.00 16.09	С
ATOM 14749 CA SER D 427	ATOM	14746	O VAL D 426	40.722 101.485 80.524 1.00 14.69	Ο
ATOM 14751 CB SER D 427 41.417 103.777 84.032 1.00 15.33 C ATOM 14754 OG SER D 427 42.222 102.987 84.849 1.00 15.12 O ATOM 14756 C SER D 427 39.811 103.624 82.127 1.00 16.35 C ATOM 14757 O SER D 427 38.634 103.373 82.353 1.00 15.56 O ATOM 14758 N LEU D 428 40.198 104.493 81.210 1.00 17.44 N ATOM 14760 CA LEU D 428 39.234 105.305 80.471 1.00 18.87 C ATOM 14762 CB LEU D 428 39.935 106.401 79.629 1.00 19.18 C	ATOM	14747	N SER D 427	42.041 102.505 82.044 1.00 15.87	N
ATOM 14754 OG SER D 427 42.222 102.987 84.849 1.00 15.12 O ATOM 14756 C SER D 427 39.811 103.624 82.127 1.00 16.35 C ATOM 14757 O SER D 427 38.634 103.373 82.353 1.00 15.56 O ATOM 14758 N LEU D 428 40.198 104.493 81.210 1.00 17.44 N ATOM 14760 CA LEU D 428 39.234 105.305 80.471 1.00 18.87 C ATOM 14762 CB LEU D 428 39.935 106.401 79.629 1.00 19.18 C	ATOM	14749	CA SER D 427	40.922 102.904 82.897 1.00 16.06	С
ATOM 14756 C SER D 427 39.811 103.624 82.127 1.00 16.35 C ATOM 14757 O SER D 427 38.634 103.373 82.353 1.00 15.56 O ATOM 14758 N LEU D 428 40.198 104.493 81.210 1.00 17.44 N ATOM 14760 CA LEU D 428 39.234 105.305 80.471 1.00 18.87 C ATOM 14762 CB LEU D 428 39.935 106.401 79.629 1.00 19.18 C	ATOM	14751	CB SER D 427	41.417 103.777 84.032 1.00 15.33	С
ATOM 14757 O SER D 427 38.634 103.373 82.353 1.00 15.56 O ATOM 14758 N LEU D 428 40.198 104.493 81.210 1.00 17.44 N ATOM 14760 CA LEU D 428 39.234 105.305 80.471 1.00 18.87 C ATOM 14762 CB LEU D 428 39.935 106.401 79.629 1.00 19.18 C	ATOM	14754	OG SER D 427	42.222 102.987 84.849 1.00 15.12	О
ATOM 14758 N LEU D 428	ATOM	14756	C SER D 427	39.811 103.624 82.127 1.00 16.35	C
ATOM 14760 CA LEU D 428 39.234 105.305 80.471 1.00 18.87 C ATOM 14762 CB LEU D 428 39.935 106.401 79.629 1.00 19.18 C	ATOM	14757	O SER D 427		
ATOM 14762 CB LEU D 428 39.935 106.401 79.629 1.00 19.18 C	ATOM	14758	N LEU D 428	40.198 104.493 81.210 1.00 17.44	N
• • • • • • • • • • • • • • • • • • • •	ATOM	14760	CA LEU D 428	39.234 105.305 80.471 1.00 18.87	
ATOM 14765 CG LEU D 428 40.366 107.614 80.448 1.00 19.96 C	ATOM	14762	CB LEU D 428		
	ATOM	14765	CG LEU D 428	40.366 107.614 80.448 1.00 19.96	С

ATOM 14767 CD1 LEU D 4:	28 41.417 108.412 79.734 1.00 21.00	C
ATOM 14771 CD2 LEU D 4		C
	38.334 104.440 79.593 1.00 19.28	C
	37.184 104.791 79.387 1.00 19.13	Ō
	9 38.846 103.318 79.085 1.00 19.93	N
ATOM 14779 CA ARG D 42		C
ATOM 14781 CB ARG D 42		Č
ATOM 14784 CG ARG D 42		Č
ATOM 14787 CD ARG D 42		Č
ATOM 14790 NE ARG D 42		N
ATOM 14792 CZ ARG D 42		C
ATOM 14792 OF THE D 4		N
ATOM 14796 NH2 ARG D 4		N
ATOM 14799 C ARG D 429		C T
ATOM 14799 C ARG D 42		ŏ
ATOM 14801 N THR D 430		N
ATOM 14803 CA THR D 43		C
ATOM 14805 CB THR D 43		C
ATOM 14807 OG1 THR D 4		Ö
	30 35.968 99.830 83.570 1.00 21.13	C
ATOM 14813 C THR D 430		c
		Ö
ATOM 14814 O THR D 430		N
ATOM 14815 N LEU D 431		
ATOM 14817 CA LEU D 43		C
ATOM 14819 CB LEU D 43		C
ATOM 14822 CG LEU D 43		C
ATOM 14824 CD1 LEU D 4		C
ATOM 14828 CD2 LEU D 4		C
ATOM 14832 C LEU D 431		C
ATOM 14833 O LEU D 431		O
ATOM 14834 N SER D 432		N
ATOM 14836 CA SER D 43		C
ATOM 14838 CB SER D 43	2 34.276 104.563 77.686 1.00 20.57	C
ATOM 14841 OG SER D 43	33.496 104.797 76.542 1.00 22.05	Ο
ATOM 14843 C SER D 432		C
ATOM 14844 O SER D 432	2 31.147 104.144 78.686 1.00 20.04	O
ATOM 14845 N SER D 433	3 32.543 102.483 79.241 1.00 20.49	N
ATOM 14847 CA SER D 43	31.457 101.503 79.409 1.00 21.09	С
ATOM 14849 CB SER D 43	3 31.982 100.082 79.627 1.00 20.76	C
ATOM 14852 OG SER D 43		O
ATOM 14854 C SER D 433	30.523 101.866 80.575 1.00 21.52	С
ATOM 14855 O SER D 433		O
ATOM 14856 N VAL D 43		N
ATOM 14858 CA VAL D 43		C
ATOM 14860 CB VAL D 43		Ċ
ATOM 14862 CG1 VAL D 4		C
ATOM 14866 CG2 VAL D 4		Č
ATOM 14870 C VAL D 434		C
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		O VAL D 434		О
		N HIS D 435		N
		CA HIS D 435	28.947 105.756 81.223 1.00 20.87	C
		CB HIS D 435	29.755 106.781 80.437 1.00 20.96	C
		CG HIS D 435	28.948 107.955 79.983 1.00 20.27	C
		ND1 HIS D 435	28.610 108.153 78.664 1.00 19.83	N
ATOM	14882	CE1 HIS D 435	27.899 109.261 78.564 1.00 20.87	C
<b>ATOM</b>	14884	NE2 HIS D 435	27.768 109.787 79.768 1.00 19.82	N
<b>ATOM</b>	14886	CD2 HIS D 435	28.412 108.989 80.673 1.00 19.48	С
<b>ATOM</b>	14888	C HIS D 435	27.785 105.218 80.364 1.00 21.06	C
ATOM	14889	O HIS D 435	26.653 105.667 80.513 1.00 20.43	Ο
ATOM	14890	N SER D 436	28.066 104.251 79.492 1.00 21.62	N
ATOM	14892	CA SER D 436	27.048 103.693 78.597 1.00 22.25	С
		CB SER D 436	27.635 102.613 77.673 1.00 22.24	С
		OG SER D 436	28.544 103.161 76.746 1.00 22.26	O
		C SER D 436	25,900 103.098 79.376 1.00 23.00	С
		O SER D 436	24.731 103.265 79.004 1.00 22.72	O
		N GLU D 437	26.244 102.374 80.442 1.00 24.39	N
			25.248 101.785 81.336 1.00 25.46	С
		CB GLU D 437	25.886 100.835 82.374 1.00 26.10	С
		CG GLU D 437	26.469 99.507 81.849 1.00 29.07	C
		CD GLU D 437	27.834 99.149 82.489 1.00 33.54	C
		OE1 GLU D 437		0
		OE2 GLU D 437		0
		C GLU D 437	24.473 102.911 82.029 1.00 25.31	C
		O GLU D 437	23.283 102.795 82.201 1.00 25.02	Ö
		N GLN D 438	25.149 104.004 82.391 1.00 25.86	N
		CA GLN D 438	24.489 105.178 82.982 1.00 26.26	C
		CB GLN D 438	25.511 106.198 83.535 1.00 25.96	Č
		CG GLN D 438	24.913 107.543 84.040 1.00 25.07	Č
		CD GLN D 438	23.981 107.423 85.262 1.00 23.70	Č
		OE1 GLN D 438		ō
			22.802 106.843 85.078 1.00 20.30	N
		C GLN D 438		c
		O GLN D 438	22.394 106.234 82.496 1.00 26.77	Ö
		N VAL D 439	23.790 106.006 80.756 1.00 28.01	N
		CA VAL D 439	22.793 106.566 79.825 1.00 29.01	C
		CB VAL D 439	23.380 107.177 78.503 1.00 28.96	Č
		CG1 VAL D 439		C
		CG2 VAL D 439		C
		C VAL D 439	21.681 105.562 79.515 1.00 29.89	c
		O VAL D 439	20.596 105.959 79.118 1.00 30.22	Ö
		N PHE D 440	21.948 104.275 79.707 1.00 30.95	N
		CA PHE D 440	20.925 103.243 79.536 1.00 31.85	C
		CB PHE D 440	21.595 101.873 79.329 1.00 31.83	C
		CG PHE D 440	20.629 100.727 79.119 1.00 32.84	C
		CD1 PHE D 440		C
			19.169 99.434 77.679 1.00 33.73	C
AIUM	14939	CE1 PHE D 440	19.100 77.434 //.0/7 1.00 33./3	C

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ATOM	14961 CZ PHE D 440	18.864 98.571 78.748 1.00 33.65	С
ATOM	14963 CE2 PHE D 440	19.440 98.780 79.999 1.00 33.58	С
ATOM	14965 CD2 PHE D 440	20.323 99.850 80.178 1.00 34.01	С
<b>ATOM</b>	14967 C PHE D 440	19.955 103.201 80.728 1.00 32.06	С
ATOM	14968 O PHE D 440	18.838 102.719 80.588 1.00 32.15	O
ATOM	14969 N ALA D 441	20.370 103.711 81.886 1.00 32.36	N
ATOM	14971 CA ALA D 441	19.538 103.664 83.087 1.00 32.82	С
ATOM	14973 CB ALA D 441	20.377 103.888 84.327 1.00 32.64	С
ATOM	14977 C ALA D 441	18.414 104.696 83.010 1.00 33.50	C
ATOM	14978 O ALA D 441	17.235 104.359 83.161 1.00 33.86	Ο
ATOM	14979 N LEU D 442	18.786 105.952 82.776 1.00 34.19	N
ATOM	14981 CA LEU D 442	17.814 107.021 82.533 1.00 34.50	C
ATOM	14983 CB LEU D 442	18.474 108.413 82.454 1.00 34.50	С
ATOM	14986 CG LEU D 442	19.975 108.588 82.129 1.00 33.86	C
ATOM	14988 CD1 LEU D 442	20.188 109.612 81.037 1.00 33.44	C
ATOM	14992 CD2 LEU D 442	20.760 108.988 83.370 1.00 33.45	С
ATOM	14996 C LEU D 442	17.008 106.750 81.261 1.00 35.15	C
ATOM	14997 O LEU D 442	15.887 107.229 81.148 1.00 35.60	Ο
ATOM	14998 N ARG D 443	17.573 105.987 80.317 1.00 35.82	N
ATOM	15000 CA ARG D 443	16.841 105.517 79.125 1.00 36.37	C
ATOM	15002 CB ARG D 443	17.797 105.356 77.923 1.00 36.58	C
ATOM	15005 CG ARG D 443	17.097 105.137 76.553 1.00 38.14	C
ATOM	15008 CD ARG D 443	16.997 103.655 76.076 1.00 39.77	C
ATOM	15011 NE ARG D 443	17.251 103.509 74.638 1.00 40.64	N
ATOM	15013 CZ ARG D 443	18.456 103.611 74.053 1.00 41.64	С
ATOM	15014 NH1 ARG D 443	19.564 103.859 74.761 1.00 41.55	N
ATOM	15017 NH2 ARG D 443	18.553 103.465 72.739 1.00 41.66	N
ATOM	15020 C ARG D 443	16.101 104.189 79.388 1.00 36.19	C
ATOM	15021 O ARG D 443	15.027 104.153 80.001 1.00 35.94	Ο
ATOM	15022 N. LYS D 448	15.998 111.025 79.247 1.00 25.17	N
ATOM	15024 CA LYS D 448	16.215 111.075 77.810 1.00 25.29	C
ATOM	15026 CB LYS D 448	14.890 111.330 77.087 1.00 25.32	С
ATOM	15029 CG LYS D 448	14.022 110.071 76.873 1.00 25.72	C
ATOM	15032 CD LYS D 448	12.780 109.988 77.802 1.00 25.03	С
ATOM	15035 CE LYS D 448	12.612 108.584 78.394 1.00 24.27	С
ATOM	15038 NZ LYS D 448	11.754 108.554 79.610 1.00 23.62	N
ATOM	15042 C LYS D 448	17.243 112.154 77.448 1.00 25.39	C
ATOM	15043 O LYS D 448	17.111 113.311 77.833 1.00 25.06	O
ATOM	15044 N LEU D 449	18.269 111.757 76.699 1.00 25.86	N
ATOM	15046 CA LEU D 449	19.361 112.652 76.323 1.00 26.04	C
ATOM	15048 CB LEU D 449	20.559 111.864 75.806 1.00 25.94	С
ATOM	15051 CG LEU D 449	21.493 111.168 76.782 1.00 26.55	C
	15053 CD1 LEU D 449	22.818 110.928 76.073 1.00 27.14	C
	15057 CD2 LEU D 449	21.715 111.946 78.057 1.00 26.67	C
	15061 C LEU D 449	18.964 113.622 75.224 1.00 26.24	C
	15062 O LEU D 449	18.307 113.239 74.246 1.00 26.12	О
ATOM	15063 N PRO D 450	19.420 114.864 75.343 1.00 26.53	N
ATOM	15064 CA PRO D 450	19.144 115.863 74.308 1.00 26.76	C

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 $\mathbf{C}$ ATOM 15066 CB PRO D 450 19.740 117.152 74.882 1.00 26.75 C ATOM 15069 CG PRO D 450 20.740 116.696 75.915 1.00 26.72 ATOM 15072 CD PRO D 450 20.256 115.399 76.436 1.00 26.46 C 19.835 115.441 73.018 1.00 26.95 C ATOM 15075 C PRO D 450 ATOM 15076 O PRO D 450 20.900 114,858 73.115 1.00 26.62 O ATOM 15077 N PRO D 451 19.251 115.714 71.852 1.00 27.50 N 19.740 115.142 70.583 1.00 27.73 ATOM 15078 CA PRO D 451  $\mathbf{C}$ ATOM 15080 CB PRO D 451 18.949 115.895 69.504 1.00 27.70 C C ATOM 15083 CG PRO D 451 17.763 116.483 70.188 1.00 27.55 C ATOM 15086 CD PRO D 451 18.078 116.587 71.655 1.00 27.45 21.234 115.299 70.326 1.00 27.94 ATOM 15089 C PRO D 451 C 21.815 114.398 69.720 1.00 28.24 ATOM 15090 O PRO D 451 O 21.842 116.403 70.760 1.00 28.06 ATOM 15091 N LEU D 452 N 23.266 116.642 70.473 1.00 28.36  $\mathbf{C}$ ATOM 15093 CA LEU D 452 23.682 118.095 70.828 1.00 28.65  $\mathbf{C}$ ATOM 15095 CB LEU D 452 22.854 119.281 70.231 1.00 29.52  $\mathbf{C}$ ATOM 15098 CG LEU D 452 C ATOM 15100 CD1 LEU D 452 21.801 119.881 71.212 1.00 29.54 23.744 120.418 69.669 1.00 29.58 C ATOM 15104 CD2 LEU D 452 24.161 115.589 71.170 1.00 28.18 ATOM 15108 C LEU D 452 C ATOM 15109 O LEU D 452 25.193 115.191 70.625 1.00 28.53 0 23.741 115.135 72.356 1.00 27.86 N ATOM 15110 N LEU D 453 24.408 114.059 73.097 1.00 27.60  $\mathbf{C}$ ATOM 15112 CA LEU D 453 24.267 114.294 74.599 1.00 27.44  $\mathbf{C}$ ATOM 15114 CB LEU D 453 24.831 115.612 75.121 1.00 26.81 C ATOM 15117 CG LEU D 453 ATOM 15119 CD1 LEU D 453 24.530 115.780 76.600 1.00 26.12  $\mathbf{C}$ ATOM 15123 CD2 LEU D 453 26.325 115.688 74.855 1.00 26.44  $\mathbf{C}$ 23.876 112.659 72.768 1.00 27.82  $\mathbf{C}$ ATOM 15127 C LEU D 453 ATOM 15128 O LEU D 453 24.595 111.668 72.906 1.00 27.68 O 22.619 112.581 72.340 1.00 28.20 N ATOM 15129 N SER D 454 C 22.003 111.311 71.948 1.00 28.50 ATOM 15131 CA SER D 454 C ATOM 15133 CB SER D 454 20.494 111.494 71.754 1.00 28.31 19.990 110.600 70.781 1.00 28.47 0 ATOM 15136 OG SER D 454 22.648 110.721 70.681 1.00 28.88 C ATOM 15138 C SER D 454 22.639 109.519 70.480 1.00 28.85 O ATOM 15139 O SER D 454 N 23.225 111.572 69.845 1.00 29.68 ATOM 15140 N GLU D 455 23.884 111.124 68.620 1.00 30.43 C ATOM 15142 CA GLU D 455 24.142 112.310 67.664 1.00 30.88  $\mathbf{C}$ ATOM 15144 CB GLU D 455 23.906 111.988 66.179 1.00 33.31  $\mathbf{C}$ ATOM 15147 CG GLU D 455  $\mathbf{C}$ 25.186 111.630 65.404 1.00 36.35 ATOM 15150 CD GLU D 455 ATOM 15151 OE1 GLU D 455 25.126 111.618 64.139 1.00 38.01 O 26.246 111.364 66.042 1.00 37.44 O ATOM 15152 OE2 GLU D 455 25.188 110.396 68.931 1.00 30.06 C ATOM 15153 C GLU D 455 25.619 109.522 68.178 1.00 30.05 0 ATOM 15154 O GLU D 455 ATOM 15155 N ILE D 456 25.791 110.741 70.058 1.00 29.91 N 27.125 110.254 70.396 1.00 30.08  $\mathbf{C}$ ATOM 15157 CA ILE D 456 27.916 111.336 71.167 1.00 30.17 C ATOM 15159 CB ILE D 456 27.740 112.718 70.543 1.00 30.89 C ATOM 15161 CG1 ILE D 456 28.139 113.837 71.473 1.00 31.69 ATOM 15164 CD1 ILE D 456

ATOM 15168	CG2 ILE D 456	29.396 110.993 71.206 1.00 30.54	С
	C ILE D 456	27.066 109.011 71.270 1.00 29.78	С
	O ILE D 456	27.967 108.157 71.226 1.00 29.77	O
	N TRP D 457	26.013 108.920 72.075 1.00 29.47	N
	CA TRP D 457	26.004 107.986 73.185 1.00 29.20	С
	CB TRP D 457	25.949 108.761 74.496 1.00 29.03	C
	CG TRP D 457	27.212 109.531 74.772 1.00 27.61	Č
	CD1 TRP D 457		C
	NE1 TRP D 457		N
	CE2 TRP D 457		C
	CD2 TRP D 457		Č
	CE3 TRP D 457		C
	CZ3 TRP D 457	26.886 112.724 76.788 1.00 24.01	C
	CH2 TRP D 457		C
	CZ2 TRP D 457		C
	C TRP D 457	24.927 106.918 73.145 1.00 29.64	C
			o
	O TRP D 457		N
	N ASP D 458		C
	CA ASP D 458		
	CB ASP D 458	21.456 106.620 71.901 1.00 30.42	C
	CG ASP D 458	20.787 107.227 73.163 1.00 31.26	C
	OD1 ASP D 458	20.662 106.506 74.181 1.00 33.17	0
	OD2 ASP D 458		0
	C ASP D 458	23.405 105.243 70.956 1.00 29.75	C
	O ASP D 458	22.662 104.510 70.272 1.00 29.41	0
	O13 444 D 500	29.783 116.760 81.248 1.00 43.28	0
	S12 444 D 500	30.864 116.387 82.132 1.00 42.59	S
	O14 444 D 500	32.224 116.769 81.817 1.00 43.05	O
	C01 444 D 500	30.406 117.217 83.634 1.00 44.92	C
	C02 444 D 500	31.432 117.604 84.565 1.00 46.73	C
	C03 444 D 500	31.074 118.247 85.767 1.00 47.36	С
ATOM 15218	C04 444 D 500	29.711 118.493 86.031 1.00 47.70	C
ATOM 15220	C05 444 D 500	28.700 118.103 85.104 1.00 47.53	С
	C06 444 D 500	29.037 117.452 83.895 1.00 45.98	C
ATOM 15224	N15 444 D 500	30.896 114.676 82.479 1.00 34.04	N
ATOM 15225	C16 444 D 500	31.497 114.289 83.828 1.00 31.09	С
ATOM 15228	C19 444 D 500	32.388 113.140 83.555 1.00 29.66	С
ATOM 15229	F22 444 D 500	31.626 112.067 83.351 1.00 30.77	F
ATOM 15230	F21 444 D 500	33.170 112.908 84.610 1.00 29.72	F
ATOM 15231	F20 444 D 500	33.122 113.297 82.452 1.00 28.12	F
	C23 444 D 500	29.617 114.039 82.203 1.00 28.86	С
ATOM 15233	C24 444 D 500	29.431 113.536 80.912 1.00 27.15	С
	C25 444 D 500	28.198 112.945 80.565 1.00 25.98	С
	C28 444 D 500	28.554 113.983 83.165 1.00 26.98	С
	C27 444 D 500	27.328 113.383 82.828 1.00 25.42	С
	C26 444 D 500	27.118 112.846 81.517 1.00 24.42	С
	C33 444 D 500	25.792 112.183 81.029 1.00 22.86	C
•	C34 444 D 500	25.234 111.097 81.997 1.00 20.31	C
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		334	
ATOM 15244	F36 444 D 500	24.196 110.407 81.435 1.00 15.54	F
ATOM 15245	F37 444 D 500	26.246 110.287 82.370 1.00 20.02	F
ATOM 15246	F35 444 D 500	24.792 111.597 83.166 1.00 20.09	F
	O42 444 D 500	25.988 111.622 79.680 1.00 24.12	O
	C38 444 D 500	24.688 113.270 80.950 1.00 22.86	C
	F39 444 D 500	24.402 113.916 82.114 1.00 21.70	F
	F40 444 D 500	25.139 114.271 80.152 1.00 23.02	F
	F41 444 D 500	23.522 112.780 80.476 1.00 21.85	F
	OH2 HOH X 1	46.532 92.966 60.943 1.00 34.51	O
ATOM 15256	-	43.940 86.741 60.458 1.00 21.54	Ö
ATOM 15259		-8.517 37.033 50.353 1.00 32.34	Ö
ATOM 15262		32.880 22.773 46.224 1.00 35.84	Ö
ATOM 15265		14.230 40.833 44.521 1.00 26.16	Ö
	OH2 HOH X 6	-4.506 33.429 56.969 1.00 22.66	ŏ
ATOM 15271		1.182 33.211 51.836 1.00 25.14	Ö
ATOM 15274		42.367 92.308 87.001 1.00 31.51	Ŏ
ATOM 15277		10.330 38.054 50.008 1.00 29.19	Ŏ
	OH2 HOH X 10	11.484 48.043 48.250 1.00 27.34	Ö
	OH2 HOH X 11	61.225 114.890 67.101 1.00 38.72	O
	OH2 HOH X 12	41.090 104.749 75.930 1.00 39.93	Ö
	OH2 HOH X 13	43.103 95.687 80.489 1.00 29.34	o
	OH2 HOH X 14	39.300 107.966 69.692 1.00 30.35	O
	OH2 HOH X 15	7.458 49.068 50.128 1.00 28.92	o
	OH2 HOH X 16	10.240 45.008 40.909 1.00 32.15	Ö
	OH2 HOH X 17	2.836 16.569 62.303 1.00 34.89	Ō
	OH2 HOH X 18	20.897 45.121 29.759 1.00 36.12	O
	OH2 HOH X 20	-24.434 20.835 48.248 1.00 41.60	O
	OH2 HOH X 21	33.739 89.574 78.961 1.00 33.24	O
	OH2 HOH X 22	40.099 90.209 61.705 1.00 31.52	O
	OH2 HOH X 23	55.511 82.920 79.410 1.00 42.28	O
	OH2 HOH X 24	23.880 31.530 42.241 1.00 31.86	0
<del>-</del>	OH2 HOH X 25	8.960 44.376 48.177 1.00 35.40	O
	OH2 HOH X 26	36.847 88.047 82.041 1.00 29.20	O
	OH2 HOH X 27	5.113 40.886 61.707 1.00 37.26	O
	OH2 HOH X 28	16.518 33.981 29.281 1.00 33.23	O
	OH2 HOH X 29	6.099 60.077 49.223 1.00 48.04	O
	OH2 HOH X 30	61.699 85.208 92.702 1.00 22.47	O
	OH2 HOH X 31	30.566 91.470 70.226 1.00 43.75	0
	OH2 HOH X 32	40.885 82.761 59.479 1.00 35.50	0
	OH2 HOH X 33	19.677 39.489 29.060 1.00 26.50	O
	OH2 HOH X 34	12.819 44.208 34.109 1.00 39.68	O
	OH2 HOH X 35	32.930 39.602 48.595 1.00 42.39	0
	OH2 HOH X 36	23.749 36.540 35.504 1.00 25.43	O
	OH2 HOH X 37	24.708 25.459 46.968 1.00 33.72	Ō
	OH2 HOH X 38	49.099 77.477 91.071 1.00 40.02	Ō
	OH2 HOH X 39	33.753 105.012 66.983 1.00 42.25	O
	OH2 HOH X 40	7.607 41.675 44.947 1.00 33.21	O
	OH2 HOH X 41	5.145 27.301 63.404 1.00 34.78	O

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ATOM 15373 OH2 HOH X 42 16.656 43.571 31.693 1.00 39.41 O ATOM 15376 OH2 HOH X 43 42.928 104.982 74.371 1.00 41.79 0 ATOM 15379 OH2 HOH X 44 57.847 85.188 90.141 1.00 33.55 0 29.538 70.693 76.936 1.00 30.56 0 ATOM 15382 OH2 HOH X 45 ATOM 15385 OH2 HOH X 46 12.599 46.276 27.929 1.00 49.86 O 28.126 22.913 46.477 1.00 47.72 0 ATOM 15388 OH2 HOH X 47 11.129 33.667 46.692 1.00 49.46 O ATOM 15391 OH2 HOH X 48 -11.613 23.589 62.844 1.00 54.23 0 ATOM 15394 OH2 HOH X 49 ATOM 15397 OH2 HOH X 50 -1.060 49.229 56.547 1.00 46.16 0 0 ATOM 15400 OH2 HOH X 51 37.636 92.539 81.720 1.00 36.58 27.519 41.154 40.197 1.00 35.37 0 ATOM 15403 OH2 HOH X 52 40.050 99.057 64.126 1.00 52.91 ATOM 15406 OH2 HOH X 53 0 ATOM 15409 OH2 HOH X 54 -19.683 26.686 47.468 1.00 44.72 O 50.246 84.320 94.984 1.00 34.24 O ATOM 15412 OH2 HOH X 55 ATOM 15415 OH2 HOH X 56 16.902 38.476 34.555 1.00 32.06 0 38.060 67.355 68.317 1.00 41.43 0 ATOM 15418 OH2 HOH X 57 60.904 94.982 89.432 1.00 34.65 0 ATOM 15421 OH2 HOH X 58 -17.325 22.794 57.113 1.00 46.37 0 ATOM 15424 OH2 HOH X 59 3.362 13.072 65.124 1.00 38.40 0 ATOM 15427 OH2 HOH X 60 34.741 105.795 74.730 1.00 37.68 0 ATOM 15430 OH2 HOH X 61 36.894 71.754 79.474 1.00 32.98 0 ATOM 15433 OH2 HOH X 62 13.379 32.879 42.381 1.00 41.41 O ATOM 15436 OH2 HOH X 63 46.404 124.169 78.443 1.00 35.68 0 ATOM 15439 OH2 HOH X 64 45.804 94.373 63.138 1.00 38.40 O ATOM 15442 OH2 HOH X 65 ATOM 15445 OH2 HOH X 66 51.421 95.969 67.069 1.00 43.00 O 11.339 36.149 48.061 1.00 34.37 O ATOM 15448 OH2 HOH X 67 34.894 90.045 94.991 1.00 51.93 0 ATOM 15451 OH2 HOH X 68 12.975 47.342 35.353 1.00 39.82 0 ATOM 15454 OH2 HOH X 69 O 63.059 87.658 92.928 1.00 42.47 ATOM 15457 OH2 HOH X 70 33.804 93.321 79.878 1.00 47.03 0 ATOM 15460 OH2 HOH X 71 2.417 31.051 61.473 1.00 41.02 0 ATOM 15463 OH2 HOH X 72 17.739 57.775 68.846 1.00 51.94 O ATOM 15466 OH2 HOH X 73 25.040 39.514 30.274 1.00 35.46 0 ATOM 15469 OH2 HOH X 74 0 ATOM 15472 OH2 HOH X 75 9.628 47.145 38.834 1.00 35.97 -1.455 38.558 54.975 1.00 43.93 0 ATOM 15475 OH2 HOH X 76 23.890 32.054 65.767 1.00 40.56 0 ATOM 15478 OH2 HOH X 77 35.220 87.143 59.408 1.00 47.79 0 ATOM 15481 OH2 HOH X 78 -3.737 37.957 51.063 1.00 37.26 0 ATOM 15484 OH2 HOH X 79 0 ATOM 15487 OH2 HOH X 80 26.390 20.517 51.266 1.00 41.78 ATOM 15490 OH2 HOH X 81 44.780 96.146 82.783 1.00 40.78  $\mathbf{O}$ 61.022 96.896 91.425 1.00 47.39 0 ATOM 15493 OH2 HOH X 82 10.746 33.408 64.943 1.00 41.11 ATOM 15496 OH2 HOH X 83 O 42.068 92.559 99.125 1.00 40.71 O ATOM 15499 OH2 HOH X 84 ATOM 15502 OH2 HOH X 85 37.825 95.713 83.950 1.00 42.10 0 18.527 38.924 32.746 1.00 31.46 0 ATOM 15505 OH2 HOH X 86 34.168 36.470 54.739 1.00 39.12  $\mathbf{O}$ ATOM 15508 OH2 HOH X 87 19.596 48.522 72.373 1.00 46.37 0 ATOM 15511 OH2 HOH X 88 11.760 55.470 73.671 1.00 46.11 0 ATOM 15514 OH2 HOH X 89

ATOM	15517	ОН2 НОН Х	90	57.669 113.347 68.754 1.00 41.84	Ο
		ОН2 НОН X		-6.478 40.654 47.625 1.00 35.45	Ο
ATOM	15523	он2 нон х	92	21.629 59.988 53.544 1.00 43.70	Ο
ATOM	15526	он2 нон х	93	46.330 74.545 84.817 1.00 51.22	O
		ОН2 НОН X		-0.340 39.090 62.724 1.00 62.65	O
		ОН2 НОН X		62.907 120.631 75.543 1.00 59.06	0
		ОН2 НОН X		8.178 27.884 44.411 1.00 51.10	O
		ОН2 НОН Х		27.884 88.496 62.492 1.00 40.76	0
		ОН2 НОН Х		-8.889 15.690 48.102 1.00 48.95	O
		он2 нон х		9.002 52.589 72.903 1.00 50.58	O
		OH2 HOH X		31.344 29.561 45.713 1.00 43.51	0
		OH2 HOH X		18.153 37.397 64.337 1.00 54.94	O
		OH2 HOH X		1.030 50.658 57.245 1.00 37.76	0
		OH2 HOH X		29.712 106.432 76.942 1.00 40.89	O
		OH2 HOH X		22.984 38.071 63.390 1.00 42.03	o
		OH2 HOH X		51.193 79.769 95.149 1.00 45.76	Ö
		OH2 HOH X		33.792 91.621 90.143 1.00 51.13	0
		OH2 HOH X		36.239 92.488 88.867 1.00 39.52	Ō
		OH2 HOH X		-3.601 13.130 44.654 1.00 54.47	O
		ОН2 НОН X		49.245 108.437 58.969 1.00 35.43	0
		OH2 HOH X		-18.430 23.420 50.306 1.00 39.52	O
		ОН2 НОН X		-18.855 46.772 46.188 1.00 58.56	O
		ОН2 НОН X		45.326 103.771 72.690 1.00 36.87	О
		ОН2 НОН X		60.490 82.135 95.444 1.00 35.66	Ο
		ОН2 НОН X		53.497 88.269 70.140 1.00 50.29	Ο
		он2 нон х		32.011 109.362 74.027 1.00 41.73	O
		ОН2 НОН X		0.426 9.190 66.809 1.00 41.95	Ο
ATOM				36.454 102.339 72.138 1.00 40.05	O
ATOM				-3.746 7.119 61.813 1.00 47.41	Ο
ATOM			119	16.245 39.647 65.869 1.00 39.33	O
ATOM			120	-15.201 15.272 45.138 1.00 47.46	·O
		он2 нон х		56.346 83.142 90.536 1.00 36.23	Ο
		он2 нон х		12.750 37.842 70.610 1.00 45.55	O
				8.747 37.163 32.384 1.00 40.95	Ο
ATOM	15619	OH2 HOH X	124	61.006 109.762 72.425 1.00 57.76	О
ATOM	15622	он2 нон х	125	46.773 121.479 78.212 1.00 40.44	О
ATOM	15625	ОН2 НОН X	126	46.357 103.993 67.888 1.00 42.09	О
ATOM	15628	OH2 HOH X	127	25,492 45.676 35.124 1.00 55.50	Ο
ATOM	15631	OH2 HOH X	128	-0.796 46.044 59.885 1.00 44.16	Ο
ATOM	15634	OH2 HOH X	129	3.729 30.062 68.882 1.00 43.81	Ο
<b>ATOM</b>	15637	OH2 HOH X	130	48.573 84.962 56.210 1.00 43.53	Ο
ATOM	15640	OH2 HOH X	131	-6.600 39.522 57.877 1.00 52.66	О
ATOM	15643	OH2 HOH X	132	-23.390 27.562 46.202 1.00 46.29	О
ATOM	15646	OH2 HOH X	133	36.470 27.644 53.311 1.00 50.64	Ο
ATOM	15649	OH2 HOH X	134	16.019 63.275 53.172 1.00 58.47	Ο
ATOM	15652	OH2 HOH X	135	-24.310 23.846 44.067 1.00 45.15	0
-		OH2 HOH X		10.555 49.737 71.777 1.00 52.75	Ο
ATOM	15658	OH2 HOH X	137	26.101 85.589 68.136 1.00 54.10	0

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ATOM 15661 OH2 HOH X 138 23.425 48.004 36.029 1.00 60.82 0 ATOM 15664 OH2 HOH X 139 13.175 50.753 30.871 1.00 50.31 O ATOM 15667 OH2 HOH X 140 4.424 42.442 47.614 1.00 50.61 O 21.786 39.941 30.408 1.00 41.84 O ATOM 15670 OH2 HOH X 141 O ATOM 15673 OH2 HOH X 142 46.374 98.519 84.033 1.00 49.67 30.667 21.882 56.816 1.00 51.78 ATOM 15676 OH2 HOH X 143 0 6.883 17.302 67.157 1.00 44.68 ATOM 15679 OH2 HOH X 144 0 ATOM 15682 OH2 HOH X 145 -8.666 40.701 52.911 1.00 55.03 0 46.777 99.081 89.567 1.00 38.00 ATOM 15685 OH2 HOH X 146 0 44.860 79.405 78.864 1.00 44.03 0 ATOM 15688 OH2 HOH X 147 -1.046 34.042 71.130 1.00 50.39 ATOM 15691 OH2 HOH X 148 O 50.211 98.627 71.049 1.00 52.24 0 ATOM 15694 OH2 HOH X 149 59.387 81.812 97.546 1.00 37.06 ATOM 15697 OH2 HOH X 150 O 35.147 89.645 81.199 1.00 34.78 O ATOM 15700 OH2 HOH X 151 8.708 46.589 42.720 1.00 39.52 ATOM 15703 OH2 HOH X 152 O 11.645 48.307 37.723 1.00 27.22 O ATOM 15706 OH2 HOH X 153 8.993 47.914 47.811 1.00 33.15 0 ATOM 15709 OH2 HOH X 154 10.193 45.169 71.150 1.00 54.72 O ATOM 15712 OH2 HOH X 155 65,460 87,643 94,825 1.00 44.03 0 ATOM 15715 OH2 HOH X 156 -7.012 39.371 50.073 1.00 32.06 O ATOM 15718 OH2 HOH X 157 31.654 106.977 74.549 1.00 33.49 0 ATOM 15721 OH2 HOH X 158 ATOM 15724 OH2 HOH X 159 21.167 41.889 71.647 1.00 46.47 O ATOM 15727 OH2 HOH X 160 -25.714 18.816 48.564 1.00 49.63 0 33.611 28.996 44.403 1.00 53.51 O ATOM 15730 OH2 HOH X 161 ATOM 15733 OH2 HOH X 162 59.252 85.715 92.605 1.00 38.66 O 56,509 79.788 79.546 1.00 51.27 0 ATOM 15736 OH2 HOH X 163 61.945 84.384 95.225 1.00 37.20 0 ATOM 15739 OH2 HOH X 164 21.292 39.470 65.165 1.00 43.24 0 ATOM 15742 OH2 HOH X 165 O 15.971 40.815 31.178 1.00 40.20 ATOM 15745 OH2 HOH X 166 O 38.973 28.814 53.562 1.00 54.48 ATOM 15748 OH2 HOH X 167 6.544 11.603 61.259 1.00 53.05 O ATOM 15751 OH2 HOH X 168 O -24.303 26.808 42.736 1.00 61.79 ATOM 15754 OH2 HOH X 169 34,981 69,780 79,701 1.00 40.54 0 ATOM 15757 OH2 HOH X 170 0 51.901 104.303 67.464 1.00 47.59 ATOM 15760 OH2 HOH X 171 18.091 45.617 30.308 1.00 51.39 O ATOM 15763 OH2 HOH X 172 34.412 92.254 86.597 1.00 48.91 O ATOM 15766 OH2 HOH X 173 41.936 82.641 55.668 1.00 38.37 O ATOM 15769 OH2 HOH X 174 22.163 36.653 32.630 1.00 42.62 O ATOM 15772 OH2 HOH X 175 28.413 34.741 46.994 1.00 50.06 0 ATOM 15775 OH2 HOH X 176 ATOM 15778 OH2 HOH X 177 8.522 49.608 45.435 1.00 46.69 O 20.863 62.029 52.043 1.00 50.34 0 ATOM 15781 OH2 HOH X 178 4.382 46.594 47.704 1.00 41.40 0 ATOM 15784 OH2 HOH X 179 20,936 27.200 39.092 1.00 46.32 0 ATOM 15787 OH2 HOH X 180 -5.954 7.428 61.983 1.00 46.68 O ATOM 15790 OH2 HOH X 181 51.690 126.628 74.732 1.00 52.23 ATOM 15793 OH2 HOH X 182 O

## Claims

- 1. A crystal comprising at least 150 amino acid residues of the LXRβ ligand binding domain.
- 2. A crystal according to claim 1 comprising the amino acid sequence from Leu-220 to Glu-461 of a human LXRβ shown in Figure 5 or an amino acid sequence having at least 95% identity with the sequence and which encodes for a LXRβ ligand binding domain.
- 3. A crystal according to any one of claims 1 to 2 comprising the entire LXRβ ligand binding domain.
- A crystal according to any preceding claim produced using a sequence including helix 12 of LXRβ.
- 5. A crystal according to any one of claims 1 to 4 usable in X-ray crystallography.
- 6. A crystal according to any one of claims 1 to 5 including a ligand bound to LXRβ or a portion thereof.
- 7. A crystal according to claim 6 in which the ligand is T0901317, GW3965 or any other ligand that binds with reasonable affinity (IC50<1000 nM to the internal LXRβ binding cavity).
- 8. A crystal of LXR $\beta$  LBD belonging to the space group P2<sub>1</sub>2<sub>1</sub>2<sub>1</sub> and having the unit cell dimensions a = 59 + /-3 Å, b = 100 + /-5 Å, c = 176 + /-3 Å,  $\alpha = \beta = \gamma = 90^{\circ}$ .
- 9. A crystal of LXR $\beta$  LBD belonging to the space group P6<sub>1</sub>22 and having the unit cell dimensions a=59 +/-3 Å b= 59+/-3 Å c=294 +/-3 Å ,  $\alpha = \beta = 90^{\circ}$ ,  $\gamma=120^{\circ}$ .

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- 10. A crystal of LXR $\beta$  LBD in complex with a coactivator peptide (TIF2 NR-box 1) belonging to the space group P2<sub>1</sub>2<sub>1</sub>2 and having the unit cell dimensions a= 89+/-3, b= 91+/-3, c=131+/-3 .  $\alpha = \beta = \gamma = 90^{\circ}$ .
- 11. A crystal according to any of claims 1 to 10 having a resolution determined by X-ray crystallography of better than 3.6 Å.
- 12. A crystal according to claim 11 having a resolution determined by X-ray crystallography of better than 2.9 Å.
- 13. A method of using the crystal according to any one of claims 1 to 12 in a drug screening assay comprising:
  - (a) selecting a potential ligand by performing rational drug design with the three-dimensional structure determined for the crystal, wherein said selecting is performed in conjunction with computer modelling;
  - (b) contacting (i.e. docking) the potential ligand with the ligand binding domain of LXRβ; and
  - (c) detecting the binding of the potential ligand for the ligand binding domain.
- 14. A method according to claim 13, wherein a potential drug is selected on the basis of it having a greater affinity for the ligand domain of LXR $\beta$  than that of a standard ligand for the ligand binding domain of LXR $\beta$ .
- 15. The method of claim 14 wherein the standard ligand in step (c) is T0901317, GW3965, or 24(S),25-epoxycholesterol.
- 16. The method of any one of claims 13 to 15 further comprising:
  - (d) growing a supplemental crystal containing a protein ligand complex formed between the N-terminal truncated LXRβ and the potential drug, wherein the crystal effectively diffracts X-rays for the determination of the atomic coordinates of the protein-ligand complex to a resolution of greater than 5.0 Å;

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(e) determining the three-dimensional structure of the supplemental crystal with molecular replacement analysis;

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- (f) selecting a candidate drug by performing a rational drug design with the three-dimensional structure determined for the supplemental crystal, wherein said selecting is performed in conjunction with computer modelling;
- (g) contacting a cell that expresses LXRβ; and
- (h) detecting a measure of protein synthesis in the cell; wherein a candidate drug is identified as such a drug when it inhibits or enhances the expression of protein synthesis in the cell.
- 17. The method of claim 16 further comprising an initial step that precedes steps (a) wherein initial step consists of determining the three-dimensional structure of a crystal comprising a protein-ligand complex formed between an N-terminal truncated LXRβ and T0901317, GW3965, or 24(S),25-epoxycholesterol, wherein the crystal effectively diffracts X-rays for the determination of the atomic coordinates of the protein-ligand complex to a resolution of greater than 5.0 Å.
- 18. A method of using the crystal according to any one of claims 1 to 12 in a drug screening assay comprising:
  - (a) selecting a potential ligand by performing rational drug design with the three-dimensional structure determined for the crystal, wherein said selecting is performed in conjunction with computer modelling;
  - (b) adding the potential ligand to a cDNA or protein expression assay regulated by LXR $\beta$ ; and
  - (c) detecting a measure of a cDNA or protein expression; wherein a potential ligand that regulates the expression of protein expression is selected as a potential drug.
- 19. The method of claim 18 wherein said protein expression is an *in vitro* protein expression assay.

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- 20. A machine-readable data storage medium, comprising a data storage material encoded with machine readable data which, when using a machine programmed with instructions for using said data, is capable of displaying a graphical three-dimensional representation of a crystal structure according to any one of claims 1 to 12 or a homologue of said crystal structure.
- 21. A method for designing a potential LXR $\beta$  ligand for the treatment of diseases modulated by the natural LXR $\beta$  ligand, the method comprising the steps of:
  - (a) employing computational means to perform a fitting operation between the chemical entity and a binding site of LXRβ receptors identified from a machine-readable storage medium according to claim 20; and
  - (b) analyzing the results of the fitting operation to predict the association between the potential LXRβ ligand and the binding site.
- 22. Method according to claim 21, additionally providing the steps of:
  - (c) synthesizing the potential LXR $\beta$  ligand based on the crystal structure of the said receptor; and
  - (d) assaying the LXR $\beta$  ligand binding response in a LXR $\beta$  animal model cell line by measuring one or more *in vivo* effects including but not limited to changes in lipoprotein profile, changes in serum or tissue triglyceride levels, changes in serum or tissue cholesterol levels, changes in serum glucose levels, changes in atherosclerotic lesion size indicating that the LXR $\beta$  ligand may be used for treatment of diseases modulated by LXR $\beta$ .
- 23. A method according to claim 21, additionally providing the steps of:
  - (e) synthesising the potential LXR $\beta$  ligand based on the crystal structure of said receptor; and
  - (f) assaying the LXRβ ligand binding response in a LXRβ reporter cell line by measuring one or more *in vitro* effects, including but not limited to changes in the activity of a LXR response element driven reporter gene such as alkaline phosphatase, green fluorescent protein, or luciferase, changes indicating that the LXRβ ligand may be used for treatment of diseases modulated by LXRβ.

- 24. A method according to any one of claims 21 to 23, additionally comprising the steps of modifying the potential LXRβ ligand so that it:
  - (a) sterically displaces helix-12; or
  - (b) disrupts the dimerisation surface.
- 25. A method according to any one of claims 21 to 24, wherein said a potential LXR $\beta$  ligand is a LXR $\beta$  antagonist.
- 26. A method according to any one of claims 21 to 24, wherein said potential LXRβ ligand is an agonist.
- 27. A method according to any one of claims 21 to 24, wherein said potential LXRβ ligand is a selective modulator.
- 28. A method of designing a ligand which will bind to LXRβ comprising comparing the shape of a compound with the shape of the ligand-binding cavity of LXRβ as obtained from a crystal according to any one of claims 1 to 12, and determining which amino acid or amino acids of the ligand binding domain interact with said compound.
- 29. A crystallized molecule or molecular complex comprising a binding pocket defined by the structure coordinates of human LXRβ ligand binding domain amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354, His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457, according to the co-ordinate tables or a homologue of said molecule or molecular complex wherein said homologue has a root mean square deviation form the backbone atoms of said amino acids of not more than 1.5Å.
- 30. A crystallisable composition comprising at least 150 amino acid residues of the LXRβ ligand-binding domain.

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- 31. An isolated protein consisting essentially of the amino acid sequence shown from amino acid 220 to amino acid 461 in Figure 5a or the sequence shown in Figure 5b.
- 32. An isolated protein according to claim 31, additionally comprising a tag, such as a his-tag.
- 33. A vector, such as a plasmid, containing a nucleic acid molecule encoding a protein consisting of the amino acid sequence shown from 220 to 461 in Figure 5 or the sequence shown in Figure 5b.
- 34. A host cell containing a vector according to claim 33.
- 35. An isolated protein having an amino acid sequence identical to the amino acid sequence used in a crystal according to any one of claims 1 to 2.
- 36. A computer for producing a three-dimensional representation of:
  - (a) a molecule or molecular complex, wherein said molecule or molecular complex comprises a binding pocket defined by the structure coordinates of LXRβ amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354, His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457 according to the co-ordinate tables; or
  - (b) a homolog of said molecule or molecular complex, wherein said homolog comprises a binding pocket that has a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å, wherein said computer comprises:
  - (i) a computer-readable data storage medium comprising a data storage material encoded with computer-readable data, wherein said data comprises the structure of LXRβ amino acid residues Ser242, Phe268, Phe271, Thr272, Leu274, Ala275, Ser278, Ile309, Met312, Leu313, Glu315, Thr316, Arg319, Ile327, Phe329, Leu330, Tyr335, Phe340, Leu345, Phe349, Ile350, Ile353, Phe354,

His435, Gln438, Val439, Leu442, Leu449, Leu453, Trp457 according to the co-ordinate tables;

- (ii) a working memory of storing instructions for processing said computer-readable data;
- (iii) a central-processing unit coupled to said working memory and to said computer-readable data storage medium for processing and computer-machine readable data into said three-dimensional representation; and
- (iv) a display coupled to said central-processing unit for displaying said three-dimensional representation.
- 37. The computer according to claim 36 wherein said computer produces a three-dimensional representation of:
  - (a) a molecule or molecular complex defined by structure coordinates of all of the LXR $\beta$  ligand binding domain amino acid residues set forth in the co-ordinate tables; or
  - (b) a homolog of said molecule or molecular complex, wherein said homolog comprises a binding pocket that has a root mean square deviation from the backbone atoms of said amino acids of not more than 1.5 Å; and wherein said computer readable data contains the coordinates of all of the LXRβ ligand binding domain amino acid residues as set forth in the co-ordinate tables.
- 38. A method for determining the three-dimensional structure of a complex between LXRβ and a ligand therefore, which comprises:
  - (a) obtaining x-ray diffraction data for crystals of the complex as defined in any one of claims 1 to 12; and
  - (b) utilizing a set of atomic coordinates as defined in claim 29 or a portion thereof; and coordinates having a root mean square deviation therefrom with respect to conserved protein backbone atoms of not more than 1.5Å to define the three-dimensional structure of the complex.
- 39. A method for determining a modelling structure of a protein containing LXRβ or a complex of said protein and a ligand, which method comprises:

- (a) providing a three-dimensional structure defined by a set of coordinates as defined in claim 29, or a portion thereof; and coordinates having a root mean square deviation therefrom with respect to conserved protein backbone atoms of not more than 1.5Å;
- (b) generating a three-dimensional model structure of the protein containing LXR $\beta$  using a homology modelling method and the structure of step (a) as a template; and
- (c) subjecting the resulting model to molecular mechanics energy minimization.

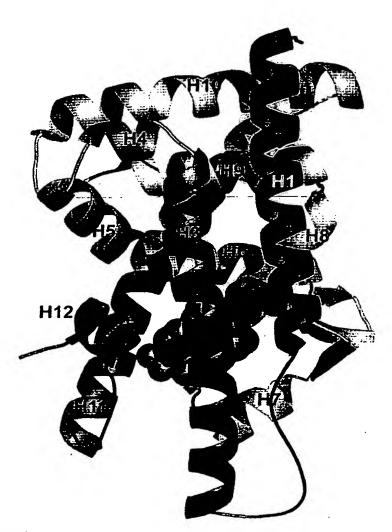


Figure 1

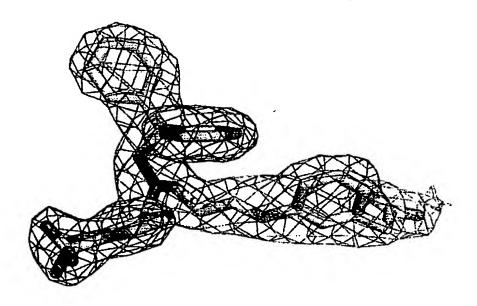


Figure 2

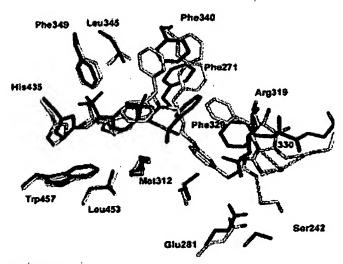


Figure 3

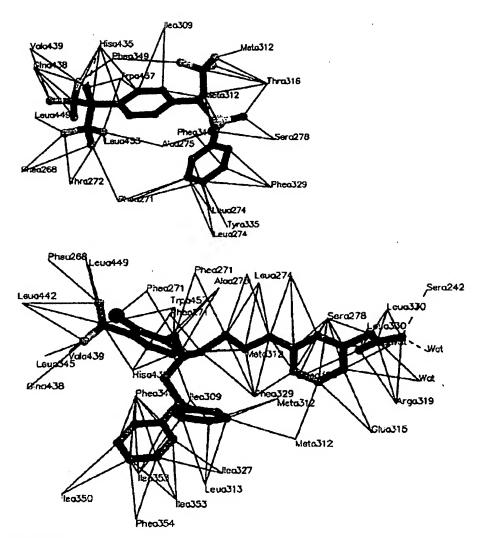


Figure 4.

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## Figure 5

- 1 msspttssld tplpgngppq pgapsssptv keegpepwpg gpdpdvpgtd eassacstdw 61 vipdpeeepe rkrkkgpapk mlghelcrvc gdkasgfhyn vlscegckgf frrsvvrgga 121 rryacrgggt cqmdafmrrk cqqcrlrkck eagmreqcvl seeqirkkki rkqqqqesqs 181 qsqspvgpqg ssssasgpga spggseagsq gsgegegvql taaqelmiqq lvaaqlqcnk 241 rsfsdqpkvt pwplgadpqs rdarqqrfah ftelaiisvq eivdfakqvp gflqlgredq 301 iallkastie imlletarry nhetecitfl kdftyskddf hraglqvefi npifefsram 361 rrlglddaey alliainifs adrpnvqepg rvealqqpyv eallsytrik rpqdqlrfpr 421 mlmklvslrt lssvhseqvf alrlqdkklp pllseiwdvh e
- (b) 209 gshmgegegv qltaaqelmi qqlvaaqlqcnk 241 rsfsdqpkvt pwplgadpqs rdarqqrfah ftelaiisvq eivdfakqvp gflqlgredq 301 iallkastie imlletarry nhetecitfl kdftyskddf hraglqvefi npifefsram 361 rrlglddaey alliainifs adrpnvqepg rvealqqpyv eallsytrik rpqdql

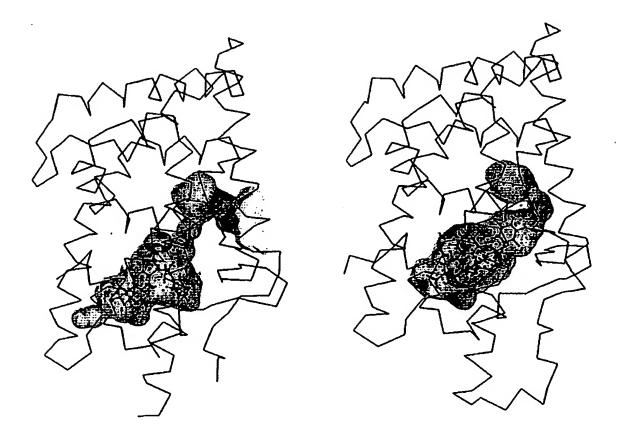


Figure 6

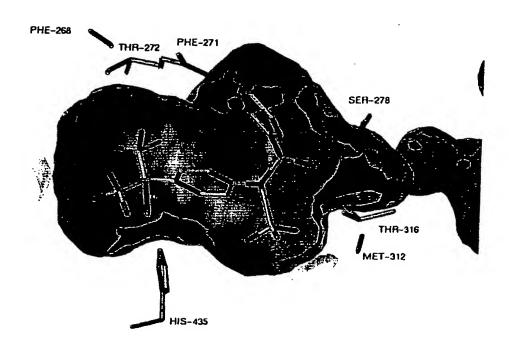


Figure 7

SEQUENCE LISTING

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<130> P708226PCT

<150> GB0230177.8

<151> 2002-12-24

<160> 2

<170> PatentIn version 3.2

<210> 1

<211> 461

<212> PRT

<213> Homo sapiens

<400> 1

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Glu Gly Pro Glu Pro Trp Pro Gly Gly Pro Asp Pro Asp Val Pro Gly
35 40 45

Thr Asp Glu Ala Ser Ser Ala Cys Ser Thr Asp Trp Val Ile Pro Asp 50 55

Pro Glu Glu Glu Pro Glu Arg Lys Arg Lys Gly Pro Ala Pro Lys 65 70 75 80

Met Leu Gly His Glu Leu Cys Arg Val Cys Gly Asp Lys Ala Ser Gly 85 90 95

Phe His Tyr Asn Val Leu Ser Cys Glu Gly Cys Lys Gly Phe Phe Arg 100 105 110

Arg Ser Val Val Arg Gly Gly Ala Arg Arg Tyr Ala Cys Arg Gly Gly
115 120 125

Gly Thr Cys Gln Met Asp Ala Phe Met Arg Arg Lys Cys Gln Gln Cys 130 135 140

Arg Leu Arg Lys Cys Lys Glu Ala Gly Met Arg Glu Gln Cys Val Leu 145 150 155 160

Ser Glu Glu Gln Ile Arg Lys Lys Ile Arg Lys Gln Gln Gln Gln 165 170 175

Glu Ser Gln Ser Gln Ser Pro Val Gly Pro Gln Gly Ser Ser 180 185 190

Ser Ser Ala Ser Gly Pro Gly Ala Ser Pro Gly Gly Ser Glu Ala Gly
195 200 205

Ser Gln Gly Ser Gly Glu Gly Glu Gly Val Gln Leu Thr Ala Ala Gln 210 215 220

Glu Leu Met Ile Gln Gln Leu Val Ala Ala Gln Leu Gln Cys Asn Lys 225 230 235 240

Arg Ser Phe Ser Asp Gln Pro Lys Val Thr Pro Trp Pro Leu Gly Ala 245 250 255

Asp Pro Gln Ser Arg Asp Ala Arg Gln Gln Arg Phe Ala His Phe Thr 260 265 270

Glu Leu Ala Ile Ile Ser Val Gln Glu Ile Val Asp Phe Ala Lys Gln 275 280 285

Val Pro Gly Phe Leu Gln Leu Gly Arg Glu Asp Gln Ile Ala Leu Leu 290 295 300

Lys Ala Ser Thr Ile Glu Ile Met Leu Leu Glu Thr Ala Arg Arg Tyr 305 310 315 320

Asn His Glu Thr Glu Cys Ile Thr Phe Leu Lys Asp Phe Thr Tyr Ser 325 330 335

Lys Asp Asp Phe His Arg Ala Gly Leu Gln Val Glu Phe Ile Asn Pro 340 345 350

Ile Phe Glu Phe Ser Arg Ala Met Arg Arg Leu Gly Leu Asp Asp Ala 355 360 365

Glu Tyr Ala Leu Leu Ile Ala Ile Asn Ile Phe Ser Ala Asp Arg Pro 370 375 380

Asn Val Gln Glu Pro Gly Arg Val Glu Ala Leu Gln Gln Pro Tyr Val 385 390 395 400

Glu Ala Leu Leu Ser Tyr Thr Arg Ile Lys Arg Pro Gln Asp Gln Leu 405 410 415

Arg Phe Pro Arg Met Leu Met Lys Leu Val Ser Leu Arg Thr Leu Ser 420 425 430

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<210> 2

<211> 208

<212> PRT

<213> Artificial

<220>

<223> The crytallised protein sequence with the first four non-L XR Beta

amino acid residues (GSHM) fused to the N-terminal end of residues 213-416 originating from human LXR Beta

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1 5 10 15

Glu Leu Met Ile Gln Gln Leu Val Ala Ala Gln Leu Gln Cys Asn Lys 20 25 30

Arg Ser Phe Ser Asp Gln Pro Lys Val Thr Pro Trp Pro Leu Gly Ala 35 40 45

Asp Pro Gln Ser Arg Asp Ala Arg Gln Gln Arg Phe Ala His Phe Thr 50 55 60

Glu Leu Ala Ile Ile Ser Val Gln Glu Ile Val Asp Phe Ala Lys Gln 65 70 75 80

Val Pro Gly Phe Leu Gln Leu Gly Arg Glu Asp Gln Ile Ala Leu Leu 85 90 95

Lys Ala Ser Thr Ile Glu Ile Met Leu Leu Glu Thr Ala Arg Arg Tyr 100 105 110

Asn His Glu Thr Glu Cys Ile Thr Phe Leu Lys Asp Phe Thr Tyr Ser 115 120 125

Lys Asp Asp Phe His Arg Ala Gly Leu Gln Val Glu Phe Ile Asn Pro 130 135 140

Ile Phe Glu Phe Ser Arg Ala Met Arg Arg Leu Gly Leu Asp Asp Ala 145 150 155 160

Glu Tyr Ala Leu Leu Ile Ala Ile Asn Ile Phe Ser Ala Asp Arg Pro 165 170 175

Asn Val Gln Glu Pro Gly Arg Val Glu Ala Leu Gln Gln Pro Tyr Val 180 185 190

Glu Ala Leu Leu Ser Tyr Thr Arg Ile Lys Arg Pro Gln Asp Gln Leu

195

200

205